MEDIALON

MEDIALON MIP HD

HD MEDIA PLAYER

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User Guide

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IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.

WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damage, fire or other hazards or physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

Power supply / Power cord

- Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.
- Use only the specified power cord.
- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.
- Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.
- When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.

Do not open

- Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it appears to be malfunctioning, discontinue use immediately and have it inspected by qualified **Medialon** service personnel.

Water warning

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

Location

- Do not expose the device to excessive dust or vibrations, or extreme cold or heat (such as direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.
- Do not block the vents. This device has ventilation holes on the rear and sides to prevent the internal temperature from rising too high. In particular, do not place the device on its side or upside down, or place it in any poorly ventilated location, such as a bookcase or closet.

Connections

- Before connecting the device to other devices, turn off the power for all devices.
- Be sure to connect to a properly grounded power source.

If you notice any abnormality

- If the power cord or plug becomes frayed or damaged, or if there is a sudden loss of function during use of the device, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified **Medialon** service personnel.
- If this device is dropped or damaged, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified **Medialon** service personnel.

MANDATORY SAFETY RULES

Although **Medialon MIP HD** Software is designed to control different kinds of hardware equipment, such as relays to control fire works, **Medialon MIP HD** can NOT be used to insure safety of users.

Users must make sure that all dangerous equipment controlled directly or indirectly by **Medialon MIP HD**, includes their own safety procedures and process.

Medialon MIP HD is not designed to insure safety process.

ACCORDING TO THE DANGEROUSNESS OF CERTAIN KINDS OF EQUIPMENT WHICH CAN BE CONTROLLED BY THIS SOFTWARE, THE LIABILITY OF MEDIALON SA IS SUBMITTED TO THE STRICT COMPLIANCE WITH THE MANDATORY SAFETY RULES AS DESCRIBED HERE ABOVE.

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Warranty will be void if manufacturer's installation and use instructions are not followed.

Warranty will be void unless our factory approved parts are used and properly installed by an authorized representative.

Warranty does not extend to parts misused, mishandling, neglect, accident, damage, flood, fire, or other causes beyond the control of the manufacturer. The warranty does not extend to consequential damage.

To make a warranty claim, visit Medialon.com to obtain an RMA (Return Material Authorization) number. No claim will be accepted without an RMA number.

The equipment in need of service should be shipped (with RMA) to the address on the RMA form, freight pre-paid. Any returned items deemed faulty due to manufacturer defect will be repaired or replaced and shipped back to the customer at no charge to the customer.

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INTRODUCTION

This section helps those who are new to Medialon MIP HD to install and start to use your Medialon MIP HD.

Overview

Medialon MIP HD is a compact player able to playback both multimedia content such as Flash, Html, Jpeg and even URLs as well as 1080p HD video. Interactive media such as Flash keep their interactivity if needed.

Its built-in web server provides web user interface to remotely upload media, to build up playlists and to schedule and retrieve log files.

Its Sync Video mode allows synchronization of an unlimited number of HD video playback via the network.

It can either operate autonomously or be slaved to a Medialon Control System making it an ideal solution for Museum as well as Digital signage applications.

Media compatibility

Compatible with most common media and HD video, MIP HD plays media files stored on its internal solid state drive and media accessible via URL (links to websites or video streams).

The web editor enables the user to display scrolling text messages (Ticker) either locally or from a distant point, for local messages, visitor information, visual paging or evacuation.

Video Sync over Ethernet

Playing HD video, several MIP HDs can be synchronized over the network from Medialon Control system, making it the ideal tool for multiple screen display. In this mode, MIP HD offers the legendary Medialon position tracking capability.

Interactivity

Media interactivity is preserved. By using a keyboard, the visitor can interact with contents like Adobe© Flash© files, HTML pages. An optional GPI accessory provides relay outputs for analog device control (lights, power) and several inputs for buttons or visitor detection sensors.

Scheduling

Via a regular web browser, locally or via the Internet, the integrated sequence and playlist editor helps to schedule media playback, visitor's interactivity, screen remote and automatic Power On/Off. Administration, supervision and maintenance features are also accessible via web browser, depending on access credentials and user profile. Medialon MIP HD integrates an RS232 output to control the local display screen.

Maintenance and Logs

Daily log files for activity and status reporting are generated and stored. If the MIP HD is connected to a LAN, log files can be transmitted automatically via e-mail for archiving.

Stable and reliable display

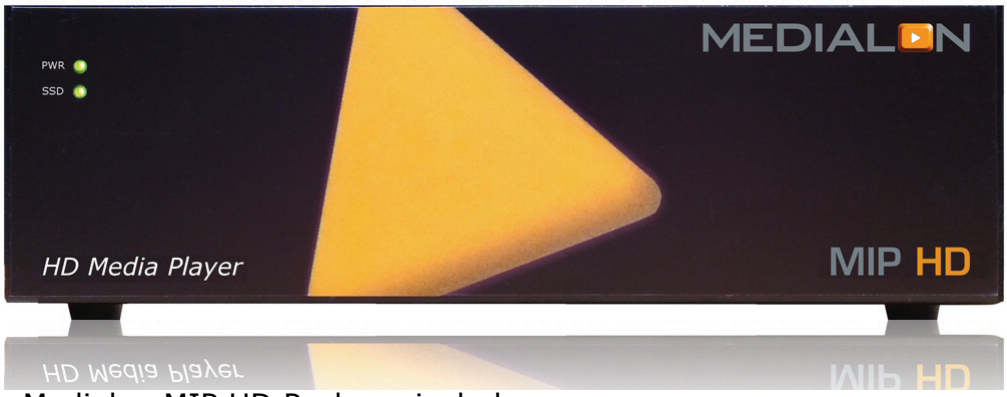
Silent with a small form factor, Medialon MIP HD is designed for constraining integration environments like public places. Its low power consumption and its Watchdog guarantee the operational stability 24 hours a day, 7 days a week, required for professional installations.

Getting Started

Medialon Medialon MIP HD can be programmed and controlled either from its own screen or remotely via a web browser, or both. To control MIP HD from a distant web browser, proper network set up must first be completed (IP address or DHCP, internet connection etc).

If you do not wish to remotely control MIP HD from a remote web browser, you will not need to configure the network. Your Medialon MIP HD will act as a stand alone machine. Local control interface allows you to play videos, create Playlists and schedule them. MIP HD parameters can also be set up from local control interface.

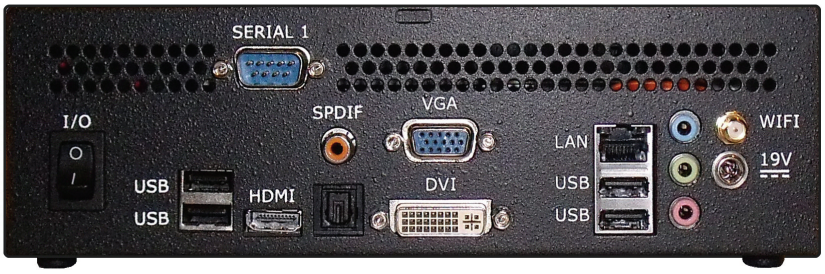
Contents of the Package



The Medialon MIP HD Package includes

- **Medialon MIP HD**
- Power Supply and its cord
- This User's Guide.

Connecting the MIP HD



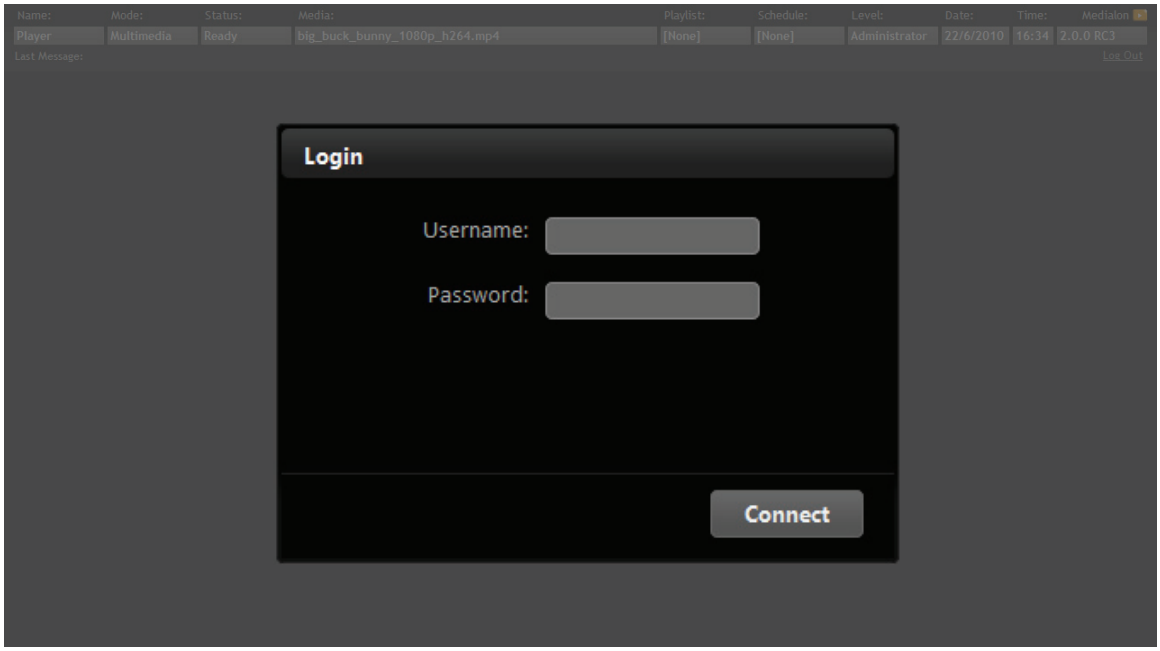
1. Connect a screen to the MIP HD, use either VGA, DVI or HDMI.
2. Connect a keyboard and a mouse via USB.
3. Connect the power block.
4. Medialon MIP HD will start automatically, front LED will light up

First Start

Connect the power supply, and Medialon MIP HD will start automatically. If it doesn't start, switch it on. Once boot up process ended, a default video will start.

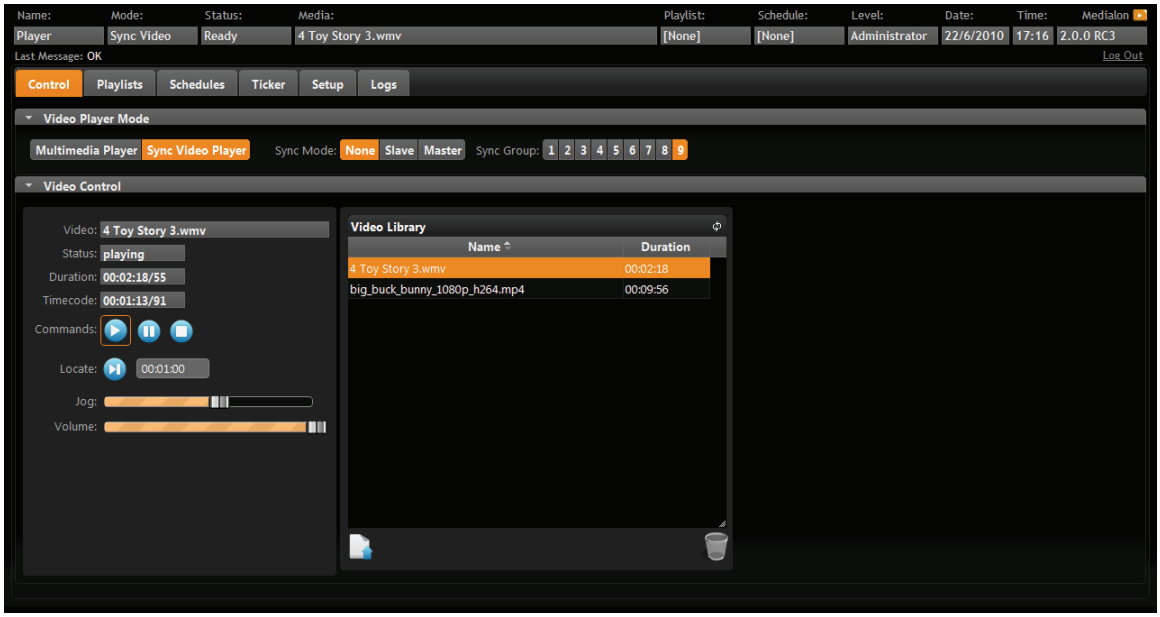
Local control

Press ***Escape*** key on the keyboard to launch the local Medialon MIP HD interface and the login page.



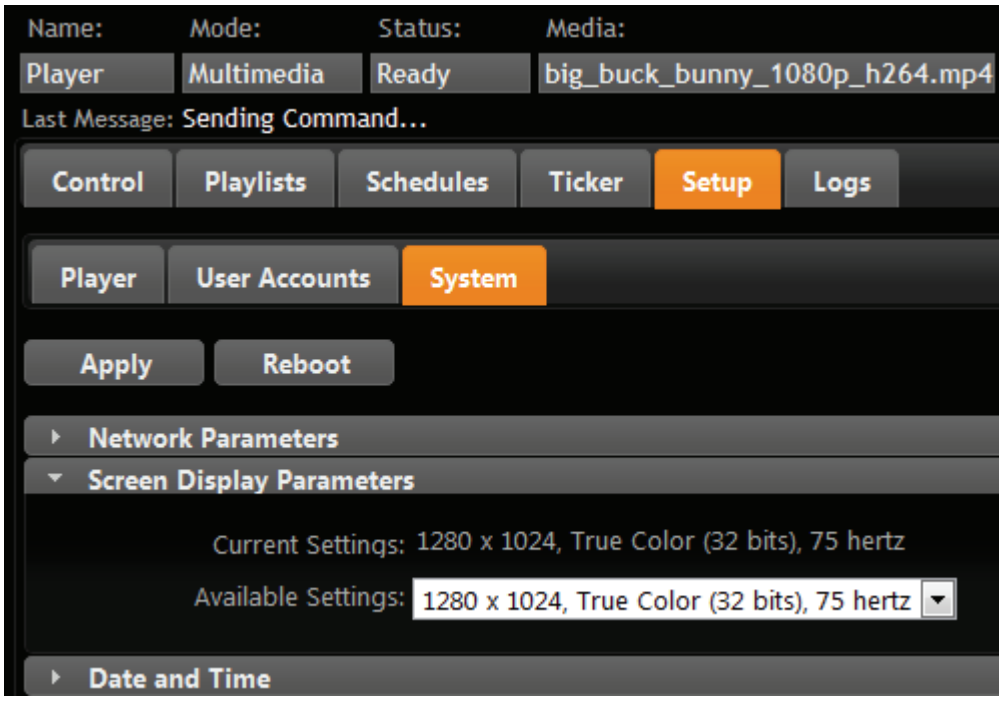
Click on the ***Connect*** button to access to the Medialon MIP HD User Interface.

There is no default Username and Password defined.



Set up screen resolution

To adjust the screen display resolution, go to ***Setup*** / ***System*** tab.



Use ***Apply*** button to validate your change. See “Display Parameters”, page 71.

Set up for remote control

Once network set up is done, you'll be able to remotely access the **Medialon MIP HD** control user interface thru a web browser, calling its IP address or computer name from your browser.

To do the network setup, go to ***Setup*** / ***System*** tab.

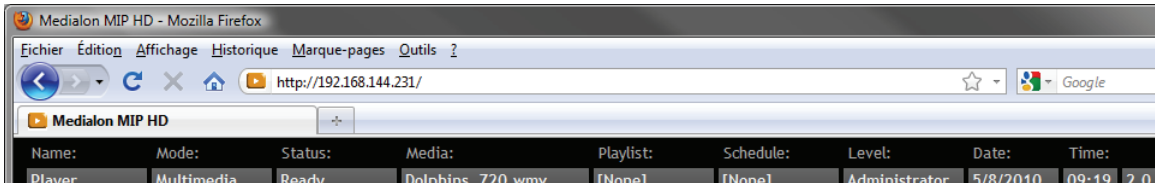
Set up of IP address and connection parameters MUST be done by an appropriate technician, i.e. your network administrator. If you are not familiar with this functionality, please refer to your network administrator. (See "Network Parameters", page 70. for network configuration detail).

Once the **Medialon MIP HD** is configured for network control, keyboard and mouse are no longer necessary.

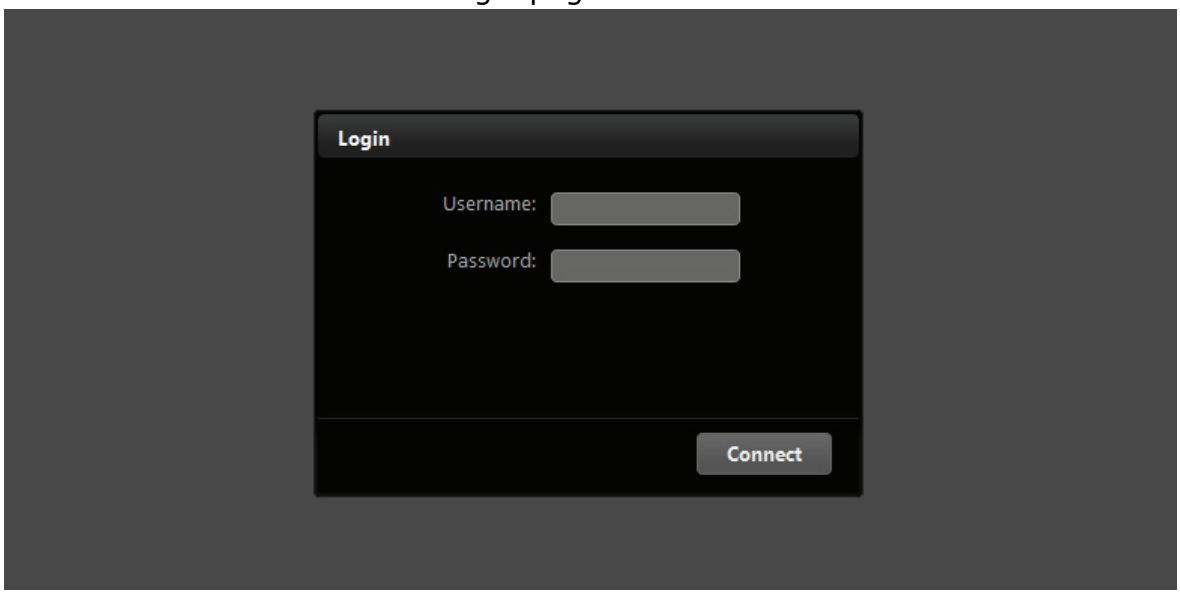
Remote access from a remote web browser

Video playback, sequence creation and media upload can be done remotely via a web browser.

Once your network set up is done, to connect to your Medialon MIP HD through the network, type the MIP HD IP address in the web browser address field.



Medialon MIP HD will send its login page.



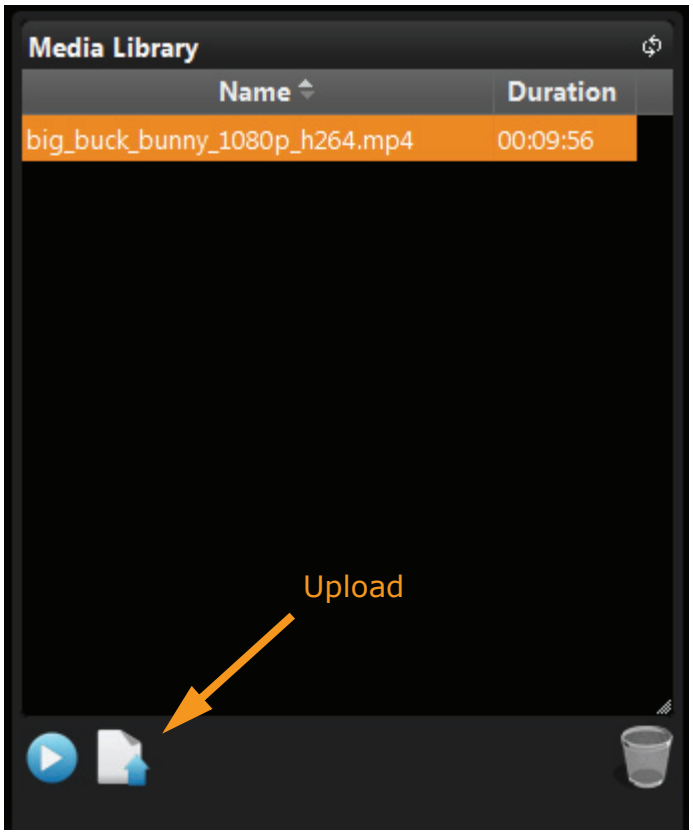
Click on the **Connect** button to access to the MIP HD User Interface. There is no default Username and no Password is defined.

If the error message 'Page cannot be displayed' appears in the web browser windows, check internet settings on the remote computer (security to Default, medium position)

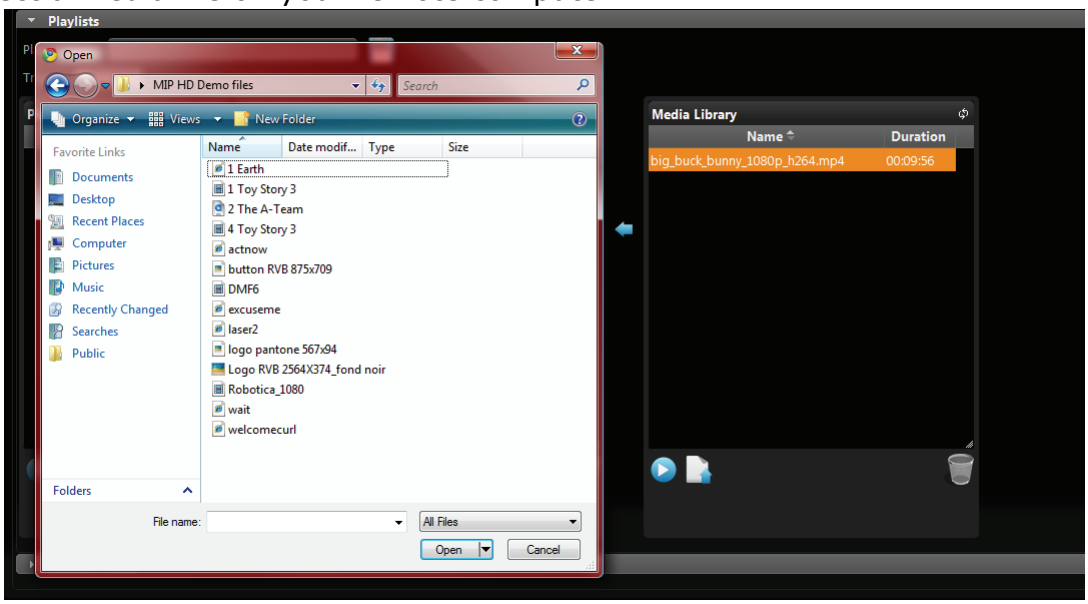
Uploading and Playing a Media

Following operations are made remotely.

1. From the Media Library.



2. Click the ***Upload*** button
3. Select a media file on your remote computer.

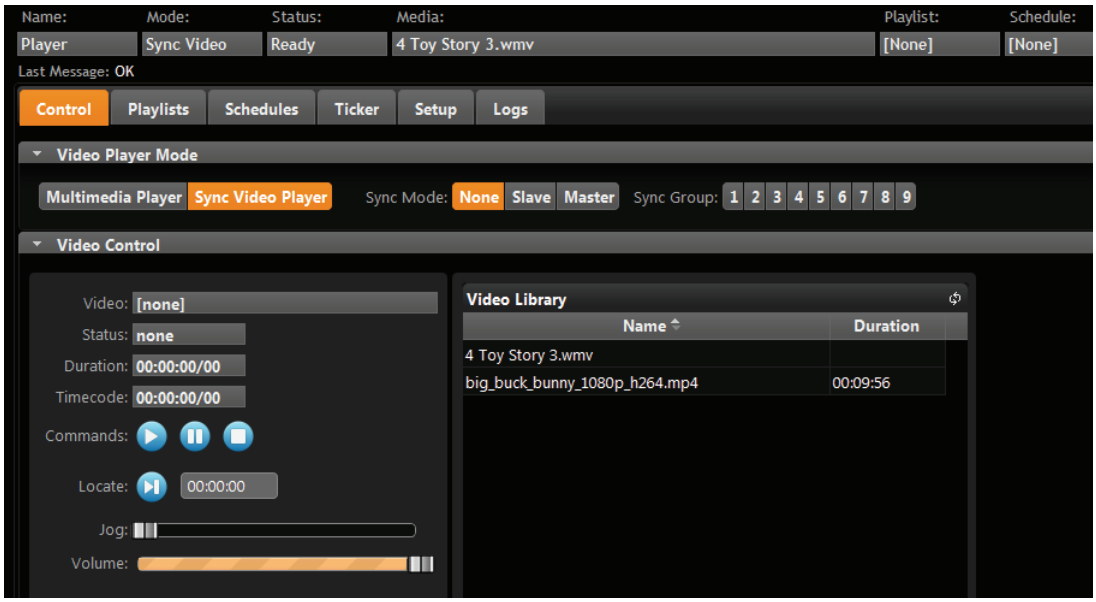


4. System uploads media.
5. Click on the Media Library ***Play*** button.
6. Selected media starts

See more about "Adding Media" on page 33.

Playing a Video

1. Go to the ***Control*** tab

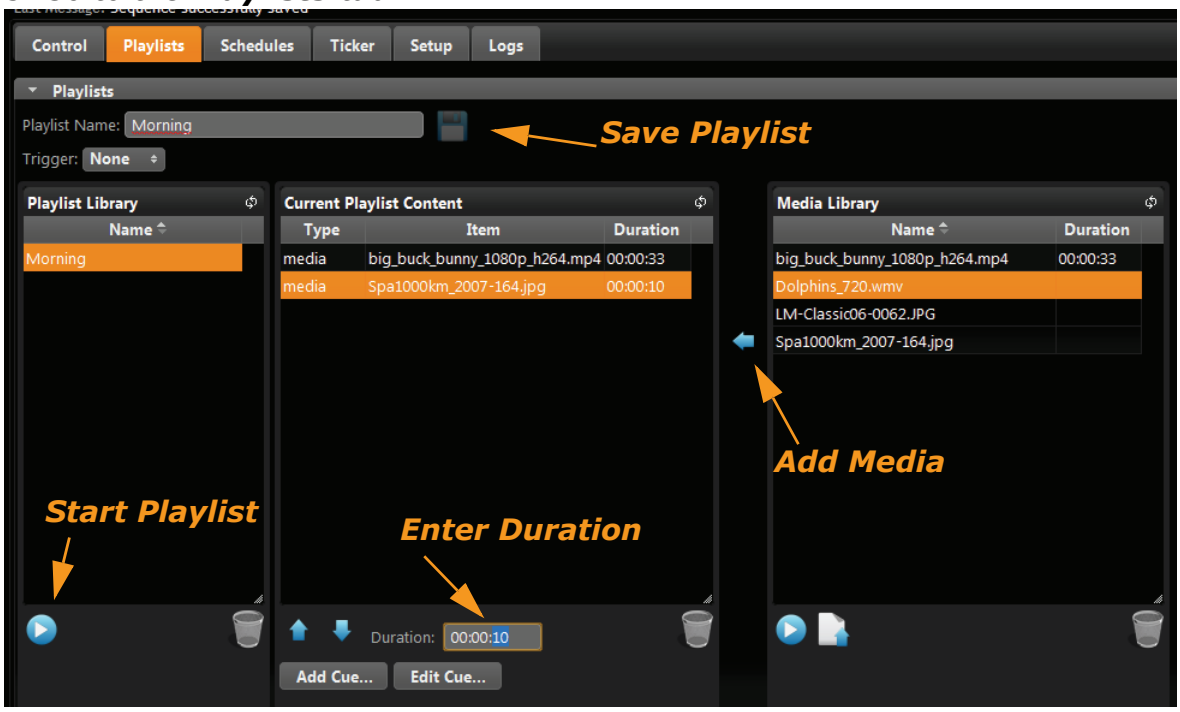


2. Select ***Sync Video Player*** mode: currently playing media stops playing
3. Click on one of the videos in the Video Library: the video is loaded in the MIP HD.
4. Click ***Play***, ***Pause***, ***Stop*** to control the video.
5. Use the ***Jog*** or ***Locate*** to position the video.

See more about "Playing Video in Sync" on page 39.

Creating Playlists

1. Go to the ***Control*** tab
2. Click on **Multimedia Player**
3. Go to the ***Playlists*** tab



4. Select a media from the Media Library.
5. Click on ***Add Media*** button.
6. Edit the duration for each playlist content item.
7. Give a name to the Playlist.
8. Click ***Save*** button.
9. Click ***Play*** button.

See more about “Playing Playlists” on page 43.

HARDWARE DESCRIPTION

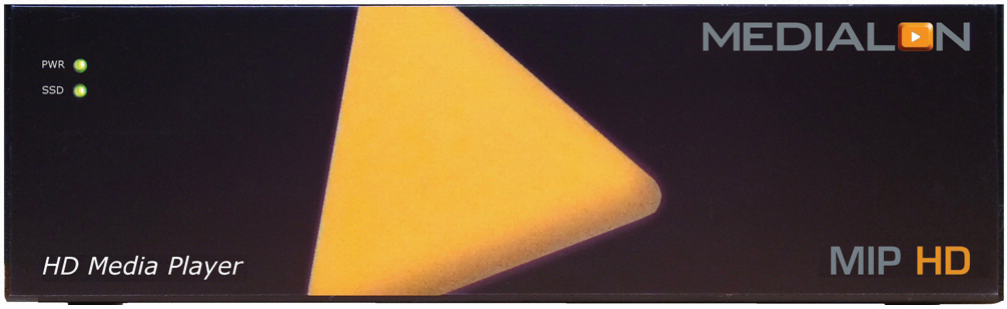
In this section you will learn how to correctly connect and start your Medialon MIP HD .

Installation

Medialon MIP HD is 1 1/2U machine with an external power supply. All connections are made in the rear of MIP HD.

Front Panel

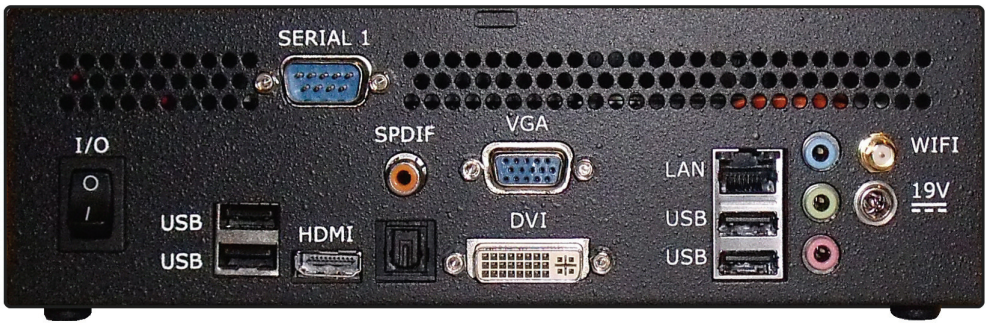
Once Medialon MIP HD is powered up, two LEDs on the front panel indicate MIP HD activity.



- [PWR] LED indicates if MIP HD is turn On.
- [SSD] LED indicates disk activity.

Rear Panel

The figure below hows the rear panel of Medialon MIP HD



- [I/O]Power On/Off Button
- [COM1] COM Port 1: To connect serial control of your screen, please check your monitor manual for connection.
- [HDMI] Monitor Output: Connector HDMI.
- [SPDIF] SPDIF Audio digital output to decoder: Connector RCA or Optical
- [VGA] Monitor Output: Connector VGA.
- [DVI] Monitor Output: Connector DVI.
- [LAN] RJ45 Ethernet LAN connector (10/100/1000Base-T).
- [USB] USB Port1 & 2: Use these to connect USB Flash Disk to load media in the MIP HD. It could also be use for keyboard and mouse. External Relays and Triggers can be connected to USB port.
- [A] Audio Line mini-jack stereo output (Green ring)
- [WIFI] WIFI antenna connector: Not in use.
- [19V] Power Connector.

USING THE MIP

In this section you will learn how to use your Medialon MIP HD.

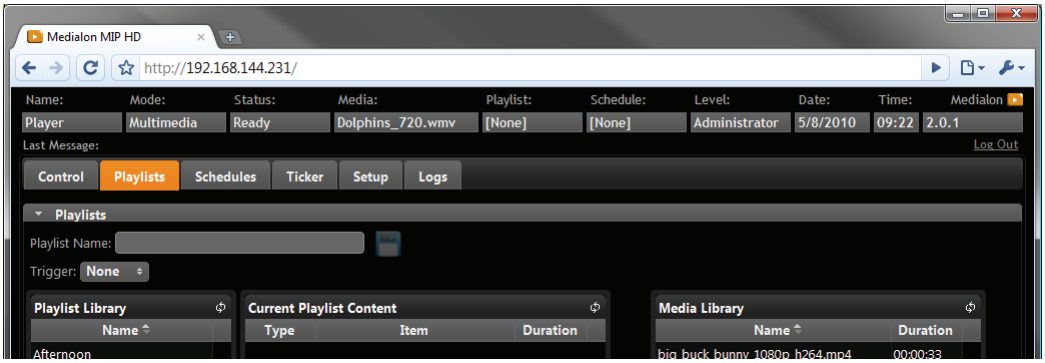
MIP HD user interface

Locally or via the Internet with a regular web browser, the integrated playlist editor helps to schedule media playback, visitor's interactivity, screen remotely. Administration, supervision and maintenance features are also accessible depending on access credentials and user profile.

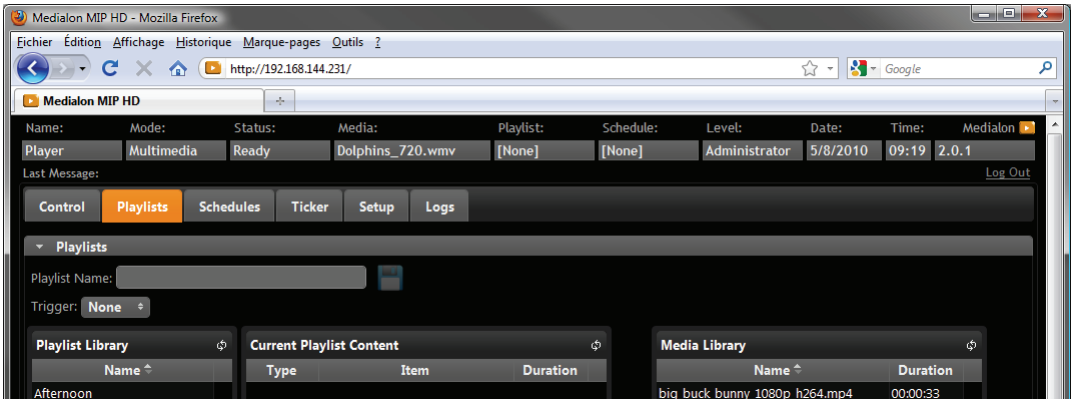
Browser Compatibility

Medialon MIP HD interface can be opened remotely with:

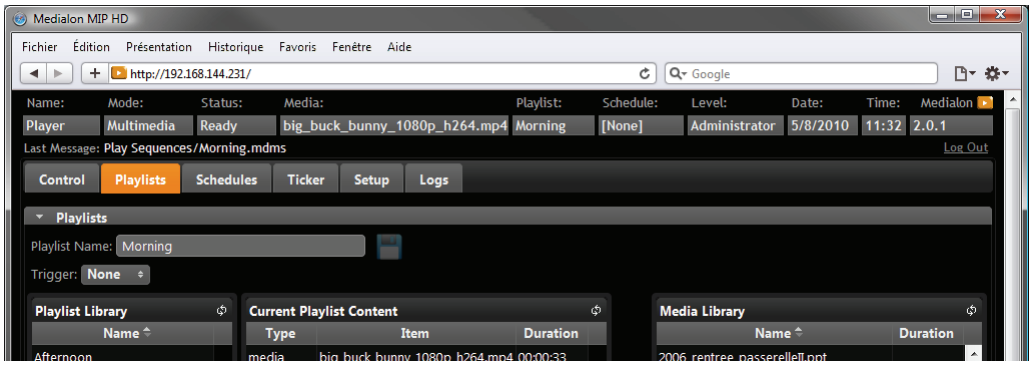
- Google Chrome



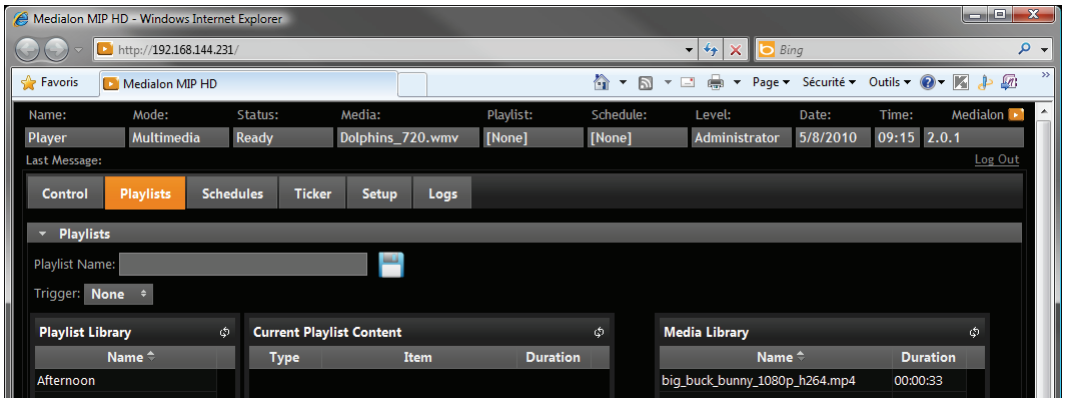
- Mozilla Firefox



- Apple Safari



- Microsoft Internet Explorer (IE6+)



Medialon MIP HD prefers a modern browser (Chrome/Safari/Firefox).

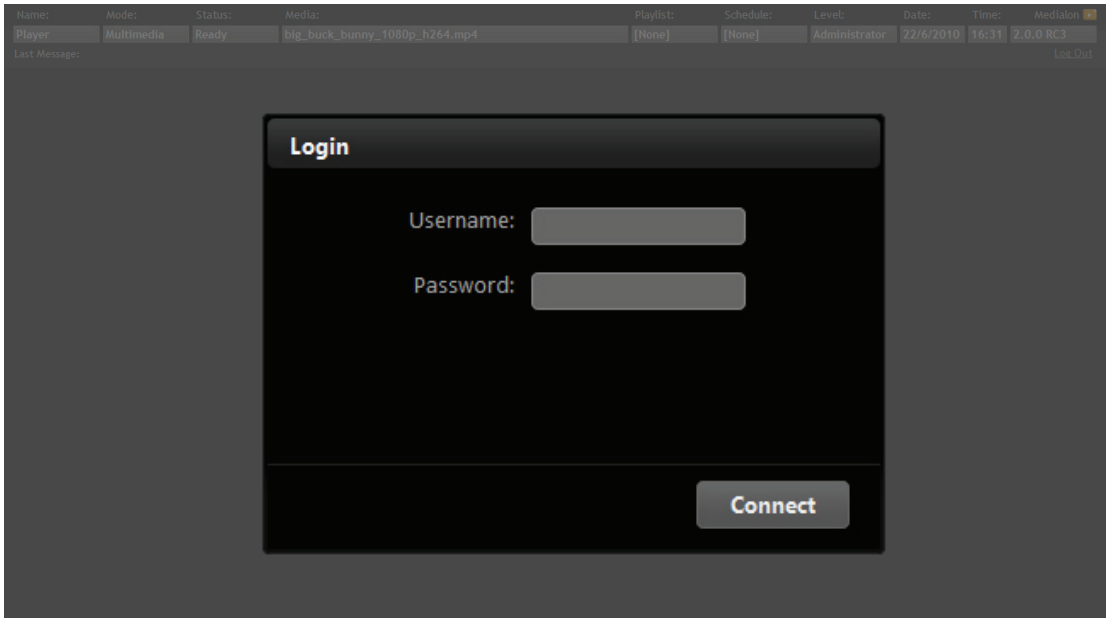
After User Identification, the Medialon MIP HD User Interface will give you access to Video playback, Playlist creation, Playlist scheduler, Monitoring Information and MIP HD Setup menu

Some antivirus software programs may conflict with information transfer from the MIP HD to the external Browser. If you are having problems with the browser, temporarily disable your antivirus/firewall to see if this remedies the problem. If it does, reconfigure your antivirus/firewall, or try a different antivirus program.

Login

Before entering in the MIP HD User Interface, a User Identification must be defined.

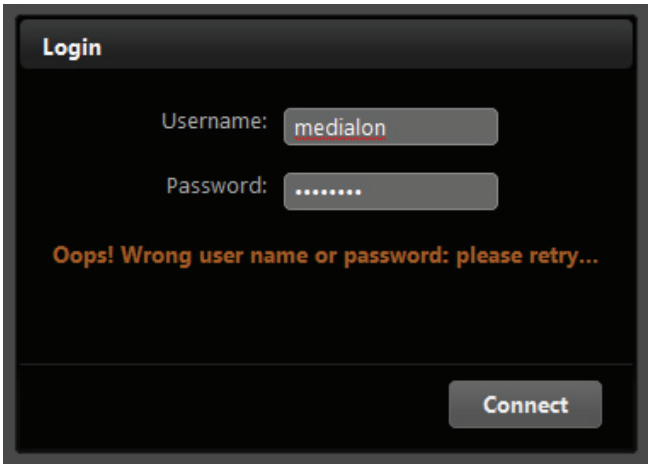
By pressing ***Escape*** key on the local keyboard or entering Medialon MIP HD IP address in the remote browser, the following page shows up.



If a Username and a Password were defined, fill in the corresponding fields. (No default Name and Password are required)

Click on the ***Connect*** button to validate.

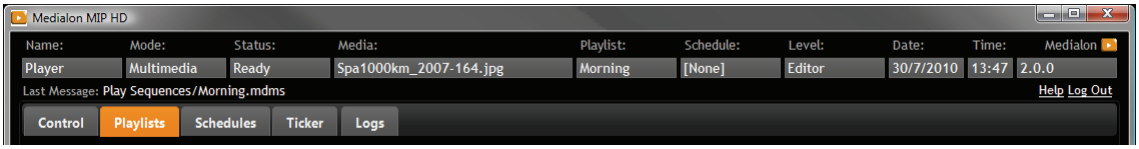
Once the login is done, Medialon MIP HD displays the last visited page depending on the user level.



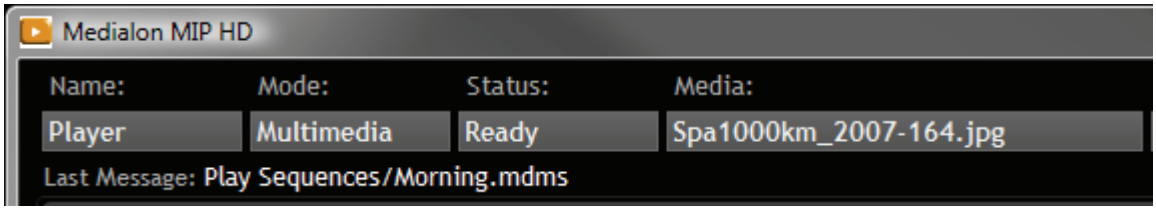
An error message will be displayed in case of wrong login.

Status Bar

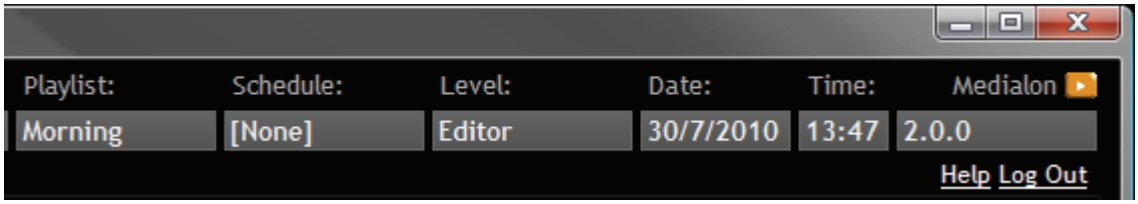
On the top of all pages, information and status of the MIP HD are displayed



- **Name**: The Player name of MIP HD is displayed. It confirms that you are connected on the right MIP HD in case of installations with several Medialon MIP HD units.



- **Mode**: indicates if MIP HD is in Multimedia Player or Sync Video Player.
- **Status**: gives last action status
- **Media**: file name of the media currently displayed on the screen.
- **Last Message**: gives the last command executed.
- **Playlist**: name of the current Playlist running.



- **Schedule**: name of the current Schedule running.
- **Level**: Your current level access
  - Administror.
  - Editor

- Ticker
- Monitoring

- **Date** & **Time**: the current date and time of the Medialon MIP HD are displayed. When you create a schedule, it could be useful to check current time settings.

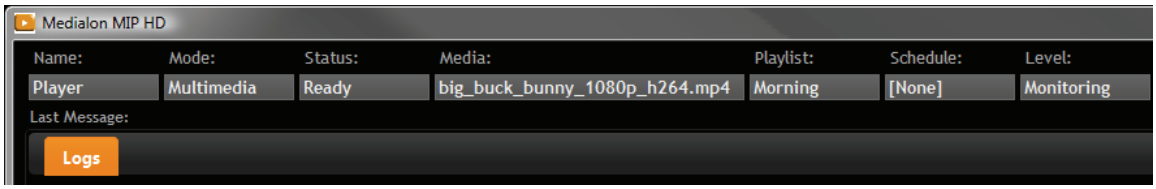
- **Medialon** : Current Medialon MIP HD firmware version.
- **Help**: link to open online this User Manual.
- **Log Out**: close the current session.

Menu Bar

Depending on your User level, the following menus are accessible:

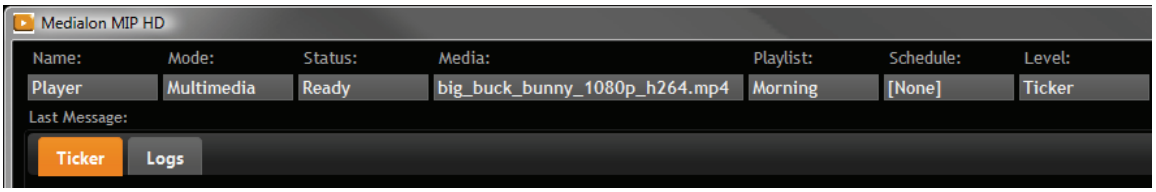
Monitoring level

With this user level, you can only access to **Logs** of Medialon MIP HD See more about "Logs" on page 74.



Ticker level

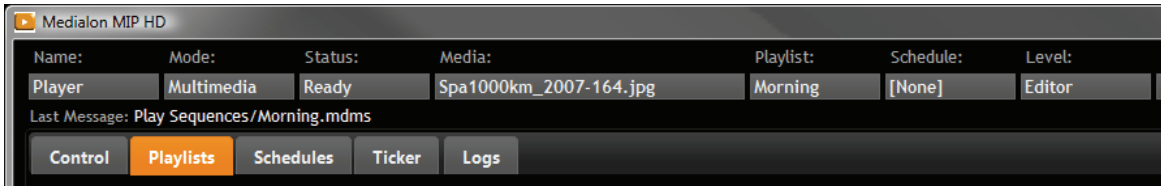
Ticker level gives access to:



- **Ticker**: Display a scrolling text.See more about "Display a Ticker" on page 57.
- **Logs**

Editor level

With this level you can access to:

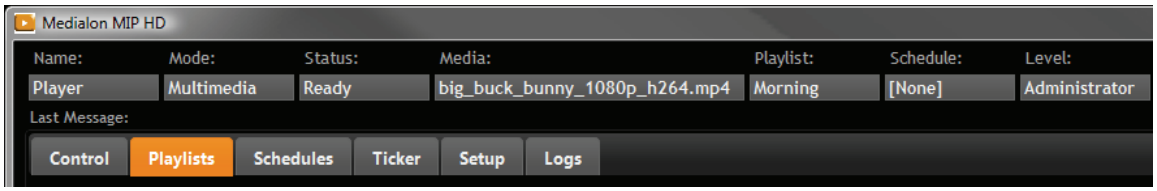


- **Control**: Use Medialon MIP HD as a video sync player. See more about "Playing Video in Sync" on page 39.
- **Playlists**: Use Medialon MIP HD as a multimedia player. See more about "Playing Playlists" on page 43.
- **Schedules**: Schedule your multimedia Playlists. See more about "Scheduling Playlists" on page 53.

- **Ticker**.
- **Logs**.

Administrator level

As administrator of Medialon MIP HD, you have access to all menus.



- **Control**.
- **Playlists**.
- **Schedules**.
- **Ticker**.
- **Setup**: configure your Medialon MIP HD. See more about "MIP HD Setup" on page 63.
- **Logs**.

Adding Media

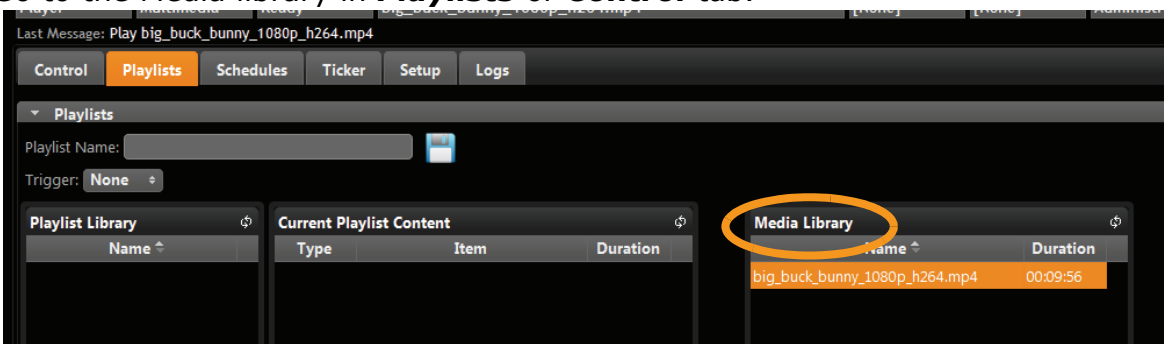
Medialon MIP HD is a compact player able to playback both multimedia content such as Flash, Html, Jpeg and even 1080p HD video.

There are 3 ways to add media in the Medialon MIP HD

- Locally by copying files from a CD/DVD in a USB DVD-Rom drive, or via a USB Flash Disk.
- Remotely via network (LAN or Internet) by up-loading files to the MIP HD.
- by using an FTP client.

Add Media in the MIP HD

Go to the Media library in ***Playlists*** or ***Control*** tab.

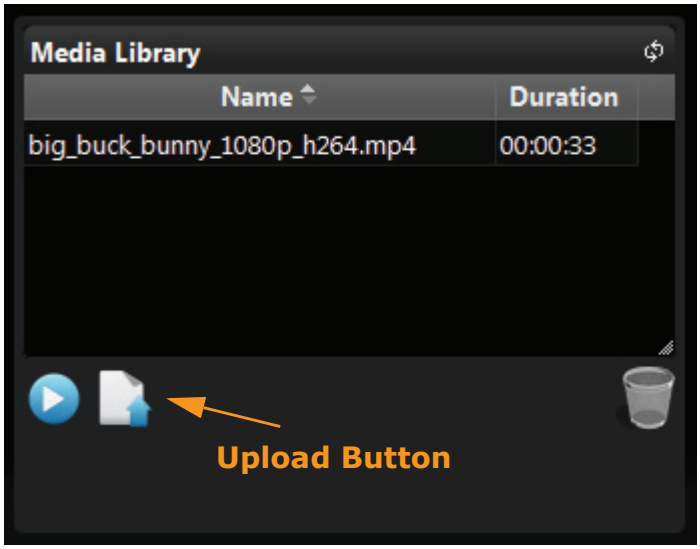


The **Media Library** contains Media available. Medialon MIP HD plays: Jpeg, Mpeg, Flash, Html and any media that plays (or will play) in a web browser running Internet Explorer ®

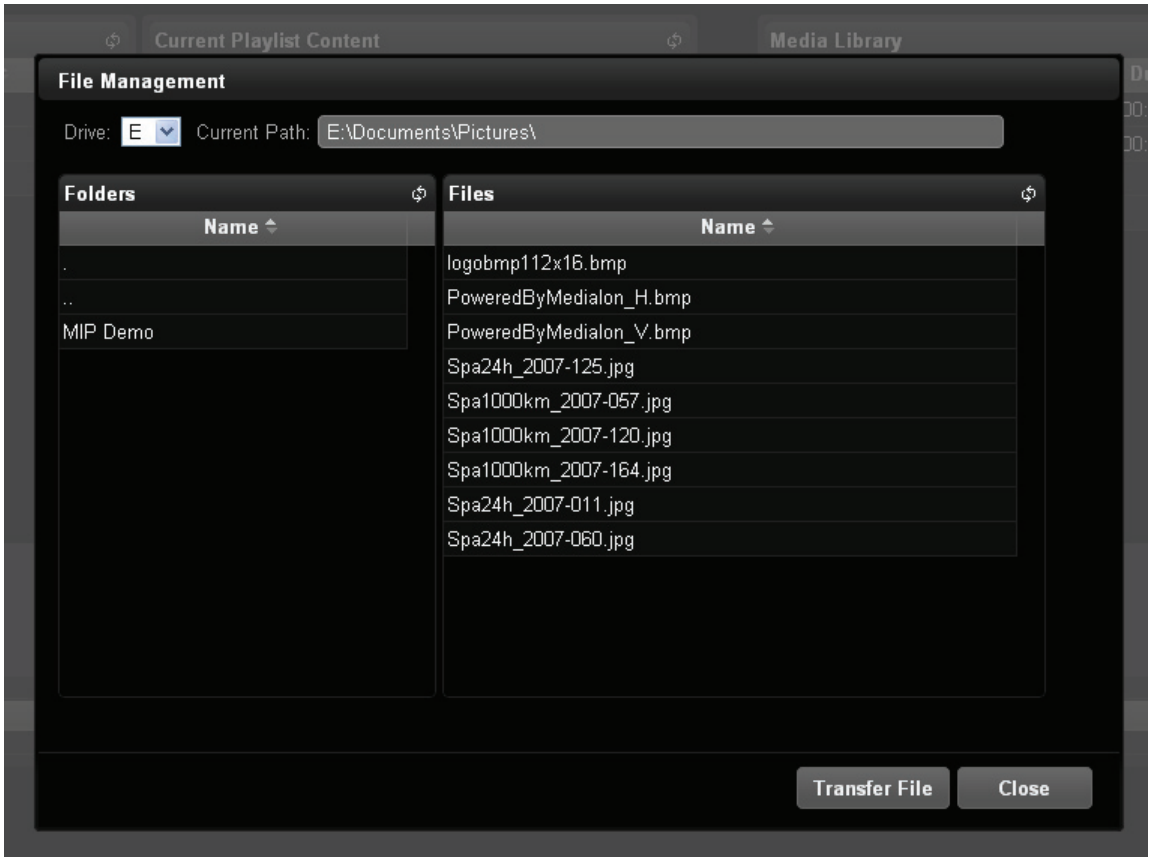
Local File Copy

To add media to the Media Library locally from a USB Key or a DVD

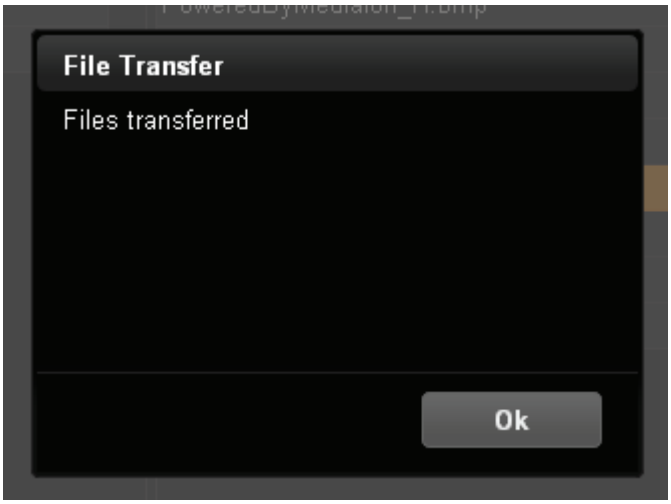
1. Plug your USB Key into a free USB port of MIP HD
2. Click on ***Upload Media*** button.



A Local File Management window opens:



3. Select a drive with the pop-up menu Drive (D for USB Disk)
4. All sub folders appears in the folder list and all available files in the files list.
5. Select sub folder to find the media you want to transfer
6. Select a file from the file list.
7. Click on ***Transfer File*** button to add the file in the Media Library.

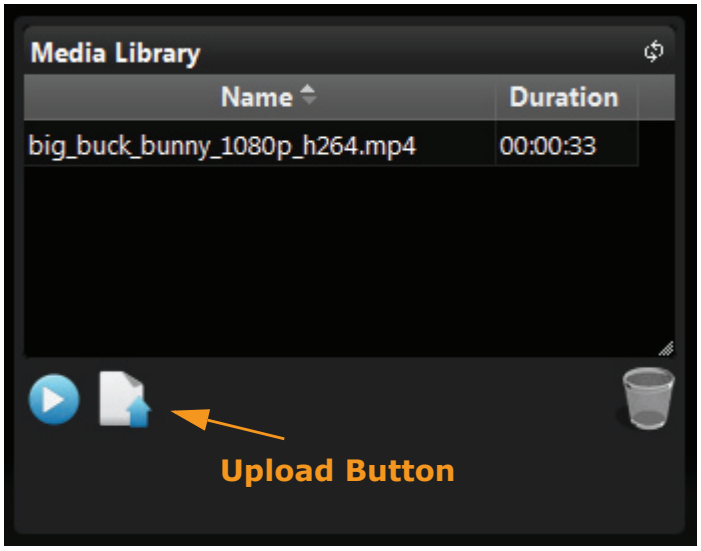


8. Close the Local File Management window by clicking on ***Close*** button

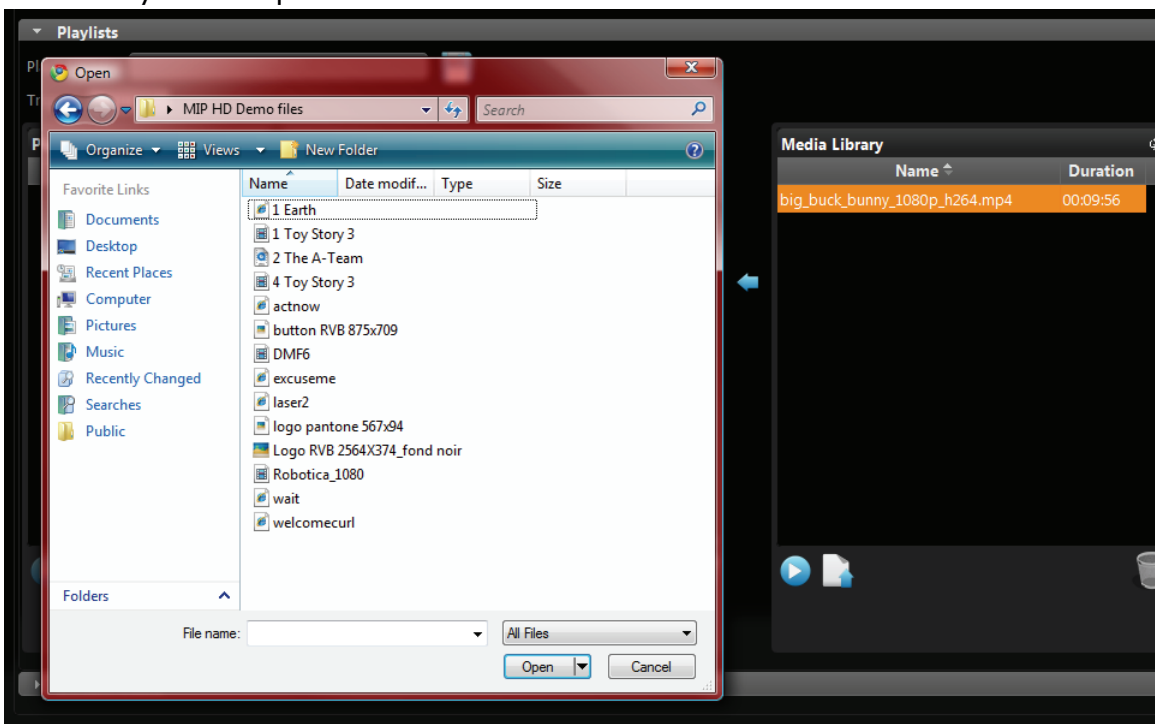
Remote Upload Media

To add media to the Media Library remotely from your computer

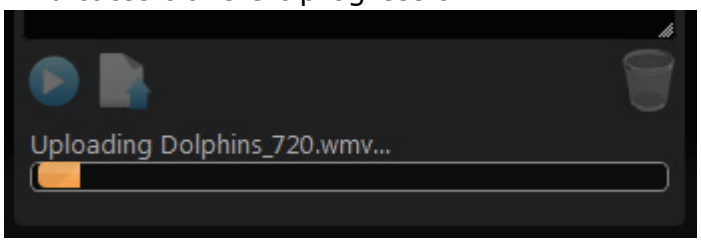
1. Click on ***Upload*** button to open a "Choose a File" dialog box..



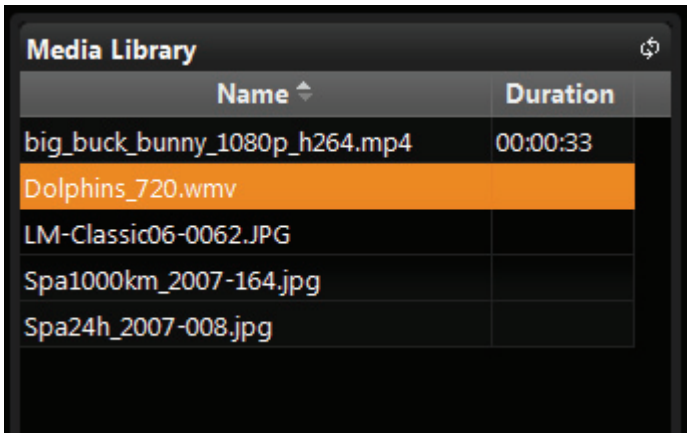
2. Browse your computer to select the media file.



3. Click on **Open** button to transfer file to the **MIP HD**.
4. Progress bar indicates transfert progression.



5. Media appears in Media Library when upload is completed.

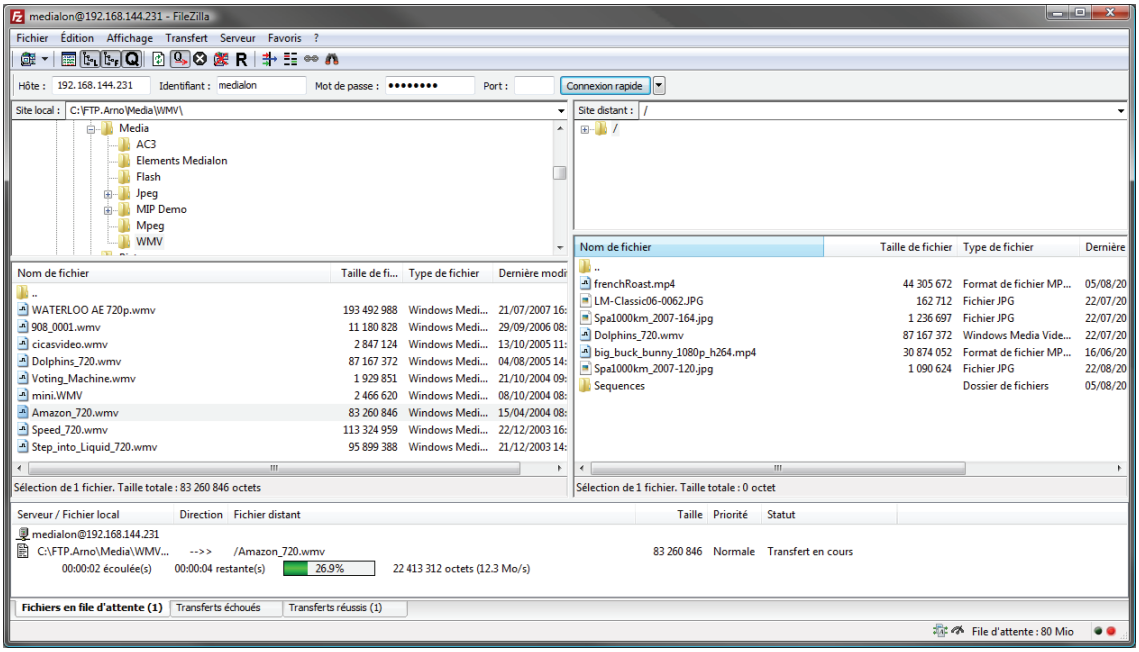


Note: only one file can be selected at the same time. There is no multi selection.

Files larger than 2Go cannot be uploaded via Firefox, prefeer another browser (Chrome or IE8).

Using a FTP Client

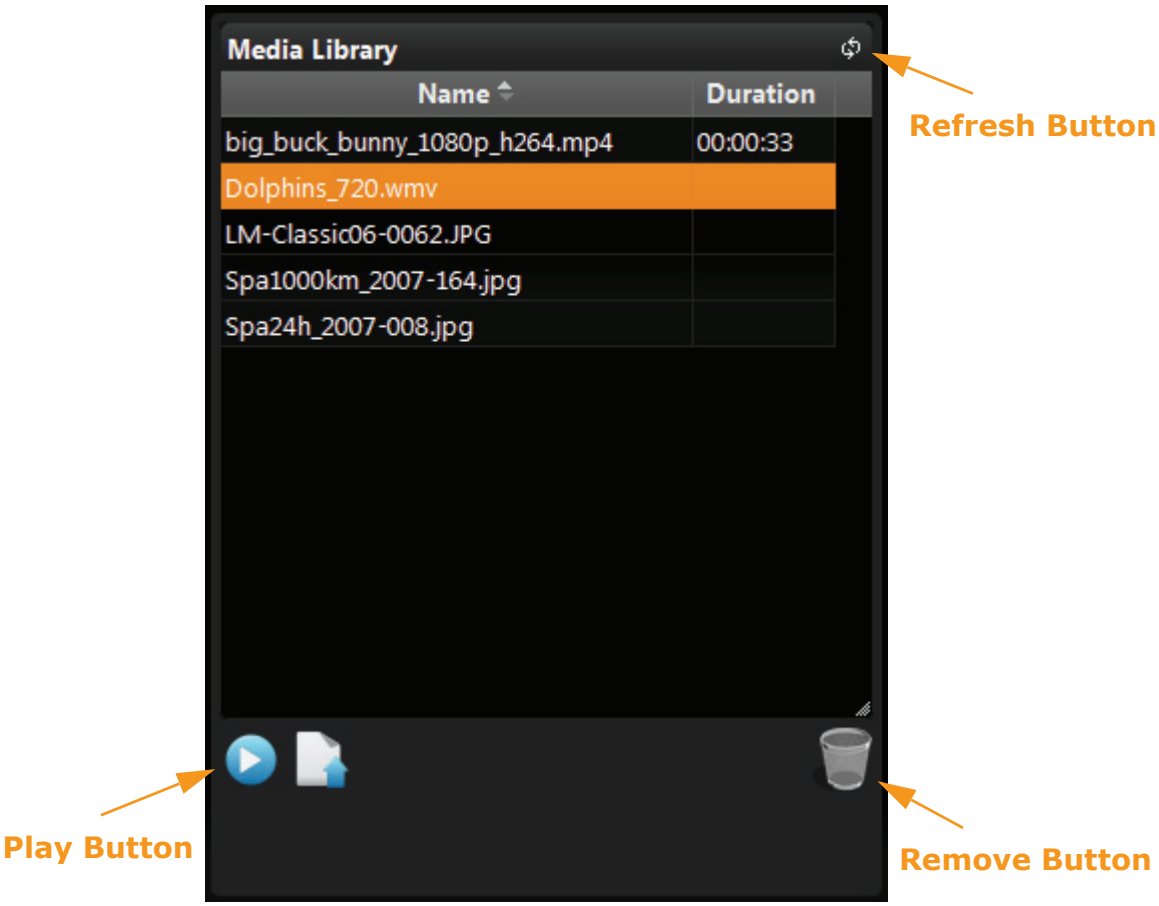
For multiple file transfers, you could prefer to use a FTP solution. Medialon MIP HD has an FTP server active onboard. You can use a FTP client like Filezilla to transfer your media.



Enter Medialon MIP HD address as FTP Server address, Username is medialon and the password is medialon.

Media Library Management

All media available in the **MIP HD** are displayed in the Media Library



Media Library can be sorted, click on Name title to invert sorting direction.

Video duration is detected after the first playback in "Sync Video Mode".

Play a Media

To playback a file, select a file from the Media Library and click on ***Play*** button. The media is displayed in the MIP HD.

Remove Media

To remove a file from the media list and click on ***Remove*** button (Trash).

Refresh Media Library

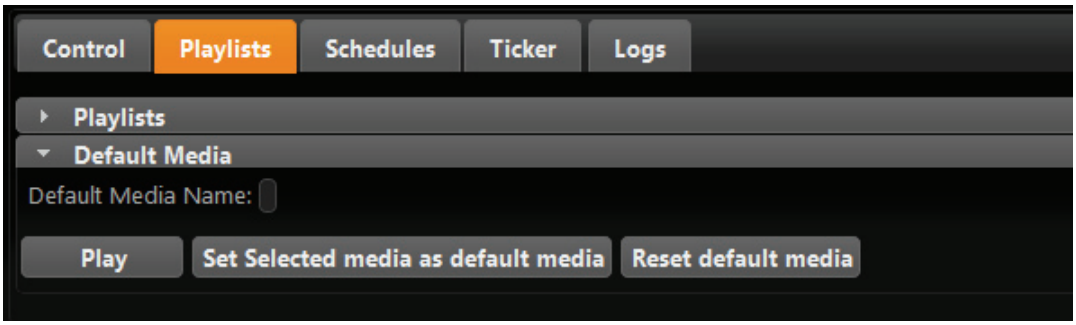
To refresh the Media Library (i.e. after a remove media), click on ***Refresh Library*** button.

Default Media

When a media in playlist is not available or there is no media to play, MIP HD will put a default media on screen.

When no media is defined as default media, MIP HD displays an empty page filled with a background color (by default black screen)

To define a default media.



Select a media in the Media Library.

Click on ***Set Selected media as default media*** button.

Click on ***Play*** button to test it.

Click on ***Reset default media*** button to use black screen as default media.

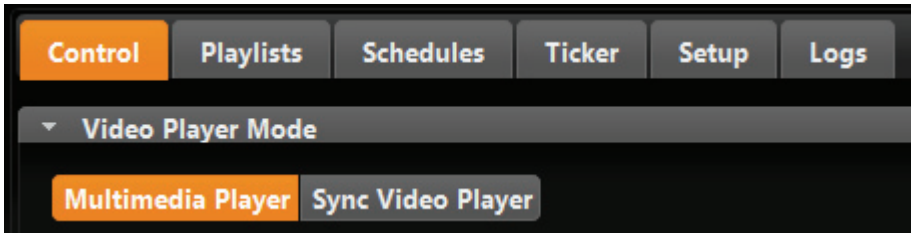
Playing Video in Sync

Medialon MIP HD is able to playback 1080p HD video.

Its Sync Video mode allows synchronization of unlimited number of HD video playback via the network.

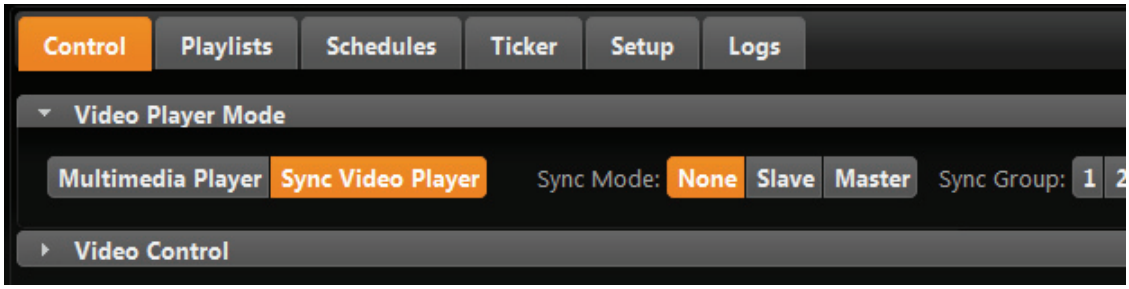
Video Player Mode

The ***Control*** tab allows switching between Multimedia and Sync Video Player.



This tab is accessible with Administrator or Editor level.

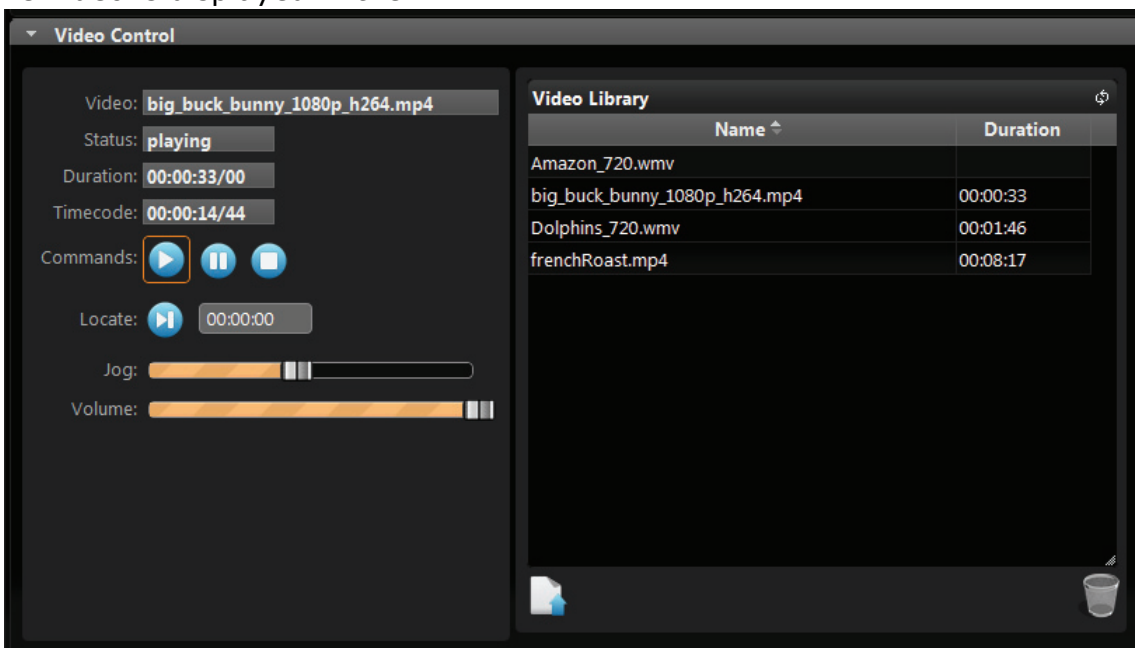
Sync mode settings are available once the Sync Video Player mode is activated.



Play a Video

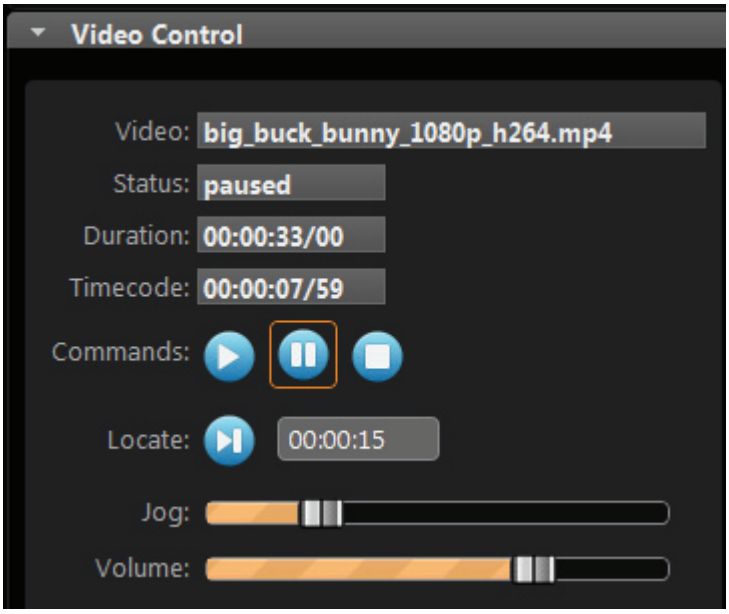
All video files available in the MIP HD are displayed in the Video Library

To playback a file, select a file from the Video Library and click on ***Play*** button. The video is displayed in the MIP HD.



Video Control

MIP HD Video Control panel gives access to transport commands.



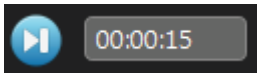
- **Video**: gives the file name of the current loaded video.
- **Status**: gives the current status of the video (Stoppped, Paused, Playing).
- **Duration**: gives the duration of the loaded video.
- **Timecode**: gives the current position of the video.
- **Commands**: click on the button to execute the command.

  - ***Play*** : Start to play the video in loop.

  - ***Pause***

  - ***Stop***

- **Locate**: enter the wanted timecode and click on the ***Locate*** button.

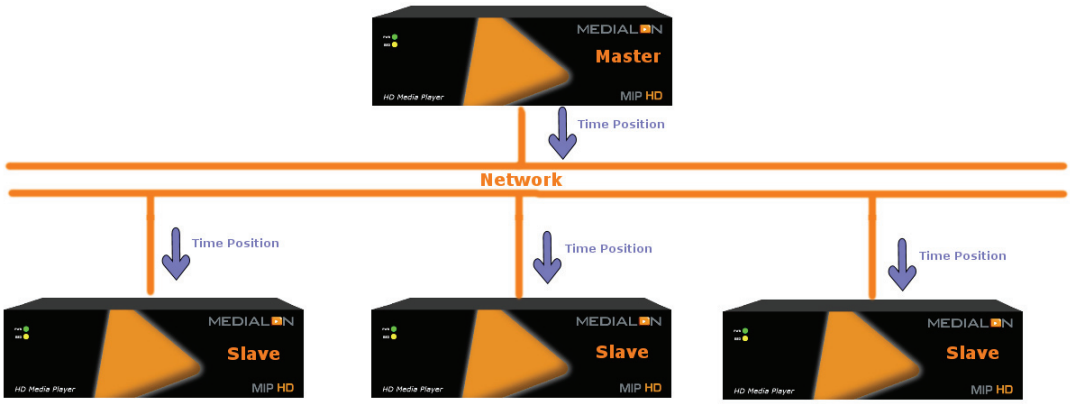


- **Jog**: use the Jog slider to execute a search in the video.
- **Volume**: adjust the audio output level.

Playing Video in Sync

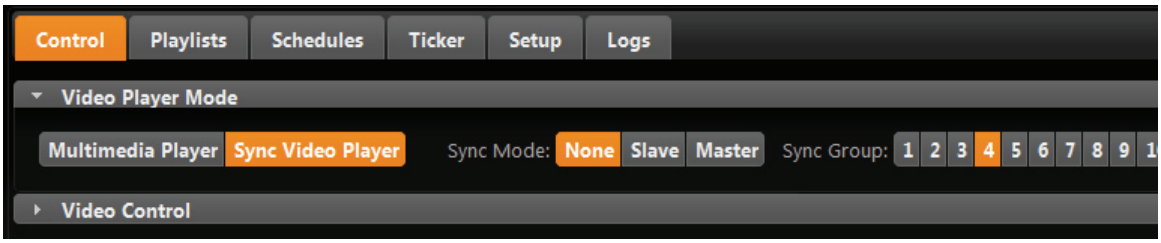
Playing HD video, several MIP HD can be synchronized over the network.

To synchronize several Medialon MIP HD, you need to define a master. this Master MIP will send its commands and timecode position to all MIP HD slaved to him.



Sync Mode

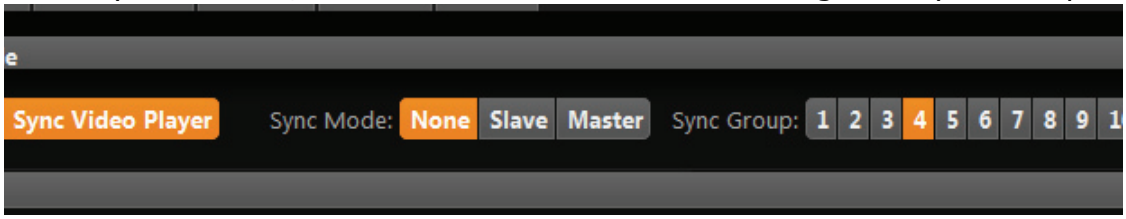
You can select the Sync mode in Video Player Mode section.



Medialon MIP HD Sync Mode can be:

- ***None***: MIP HD is used as a standalone video player.
- ***Slave***: MIP HD receives external commands and time reference to synchronize his video loaded.
- ***Master***: MIP HD sends commands and time reference to synchronize slaved MIP HD.

To be synchronized, a Medialon MIP HD needs to belong to a Sync Group.



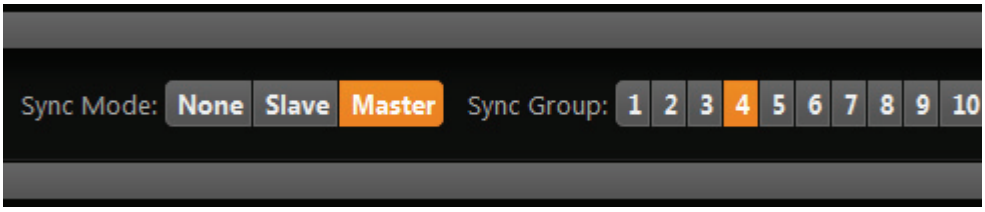
All slave MIP HD are synchronized by the Master of their Sync Group.

Medialon MIP HD can be synchronized over the network from Medialon Control System, making it the ideal tool for multiple screen display. In this mode, MIP HD offers the Medialon position tracking capability.See more about "External Control" on page 60.

Using MIP HD in Sync

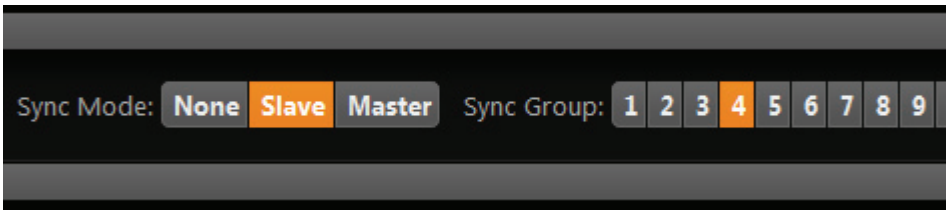
To play several videos in sync with Medialon MIP HD, you need to:

1. Load (select) the video in each MIP HD.
2. Define your MIP HD Master and select a Sync group.

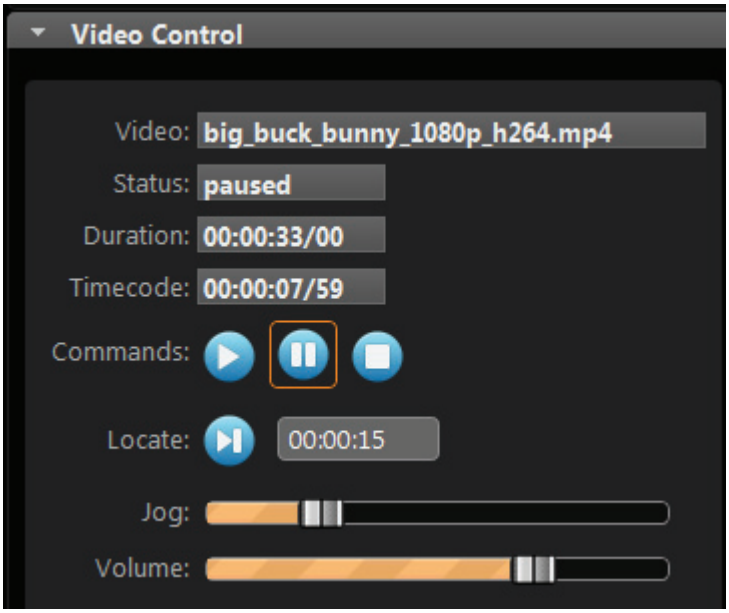


Sync group can accept only 1 Master on the network. MIP HD behavior will be unpredictable if several masters are activated.

3. Set the other MIP HD as Slave in the same Sync group.



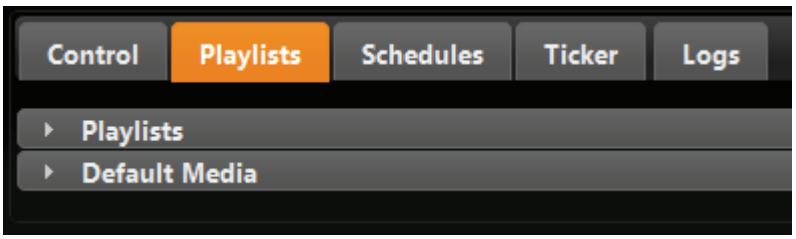
4. Use the MIP HD Master video controls to start all videos in sync.



Playing Playlists

Medialon MIP HD is able to playback multimedia content such as Flash, Html, Jpeg, videos and even URLs. Interactive media such as Flash keep their interactivity if needed. You can save as a Playlist a sequence of media you want to play in loop.

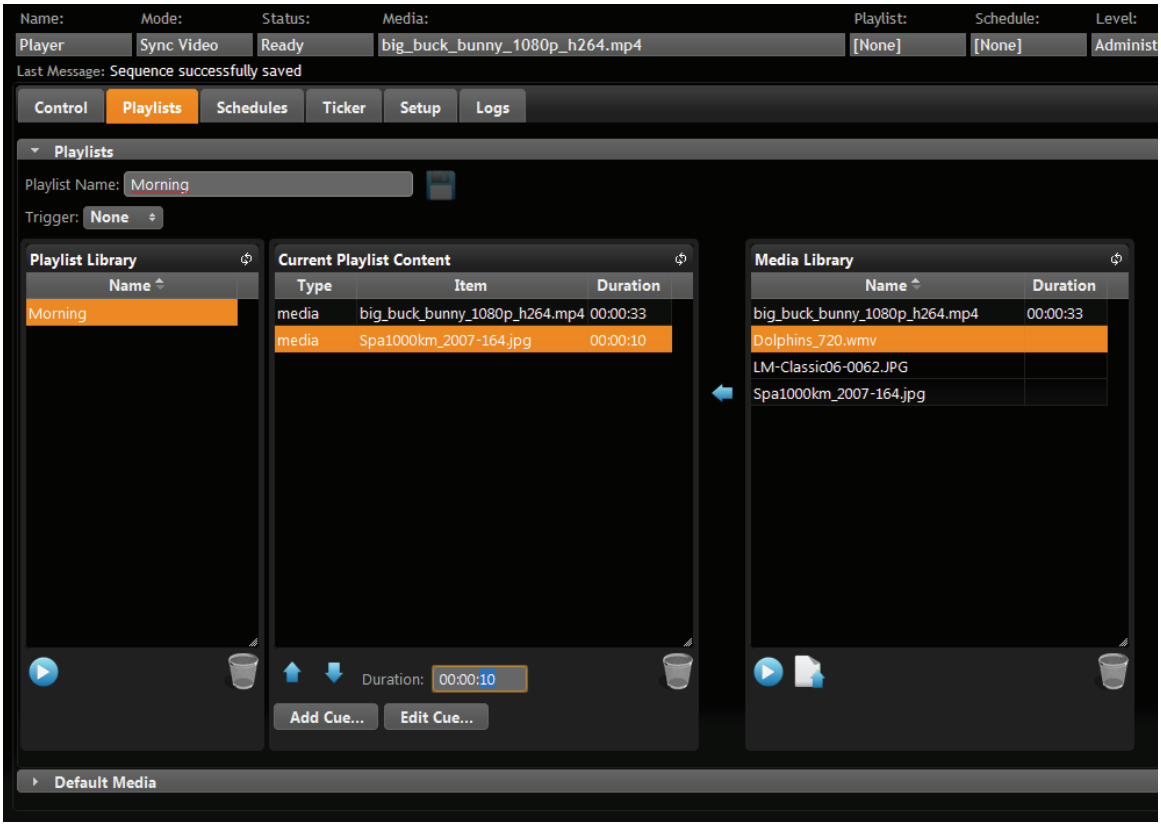
The ***Playlists*** tab allows to create, edit Playlists and set the default media.



This tab is accessible with Administrator or Editor level.

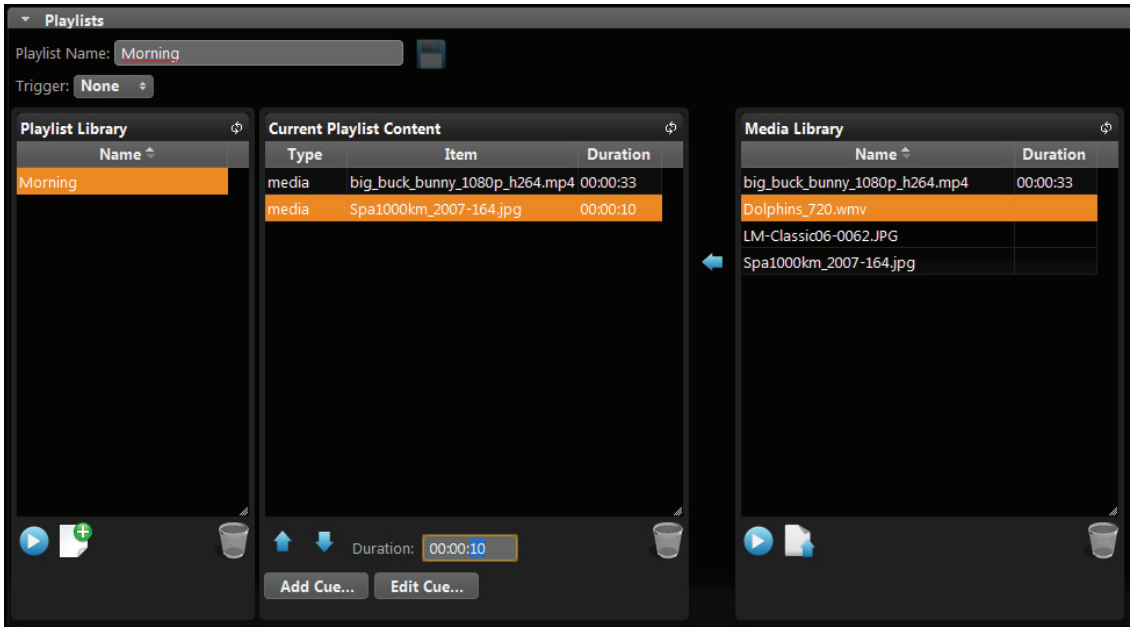
Playlists

The Playlists section is divided in 3 panes. **Media Library** to manage media, **Current Playlist Content** to view and edit Playlists, **Playlist Library** to manage Playlist.



Create a Playlist

You create a playlist when you want to display several media in a loop.



You can create as many Playlists as you want, the list of existing playlists is displayed in the Playlist Library. The list of media content in a Playlist is displayed in the Current Playlist Content.

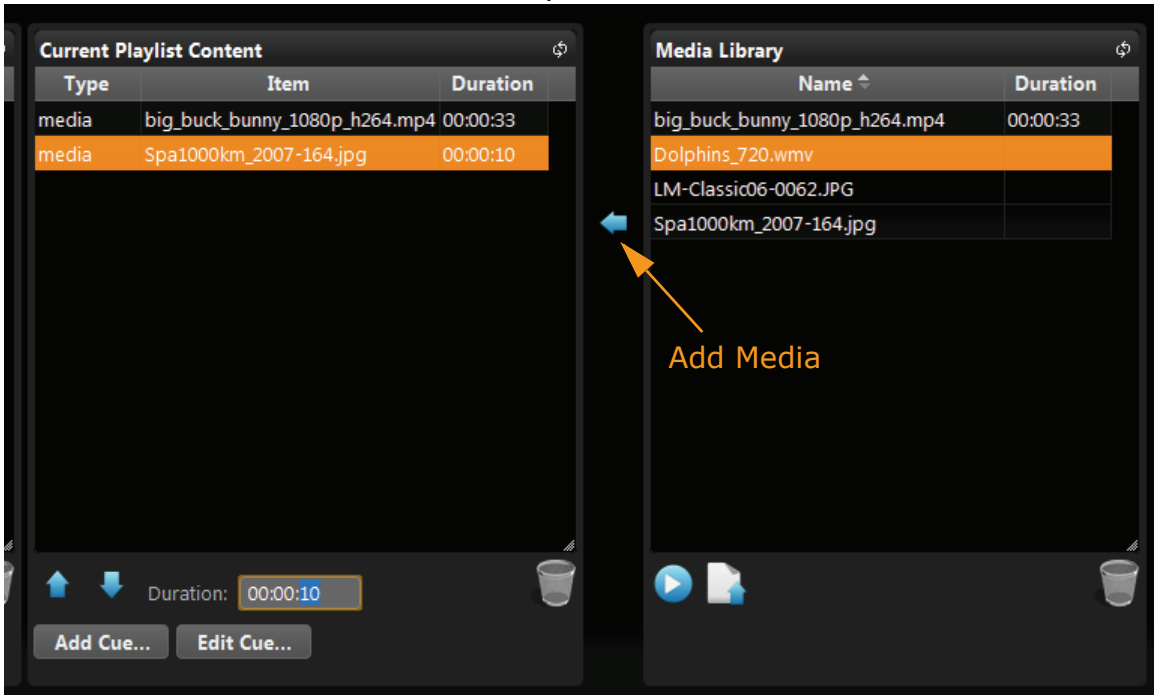
Click on ***New Playlist*** button to create a new Playlist. Current Playlist Content is now empty.

Add a Media in a Playlist

Several methods are available to add a Media in a Playlist.

Method A

1. Select a file from the Media Library.



2. Click on ***Add Media*** button.

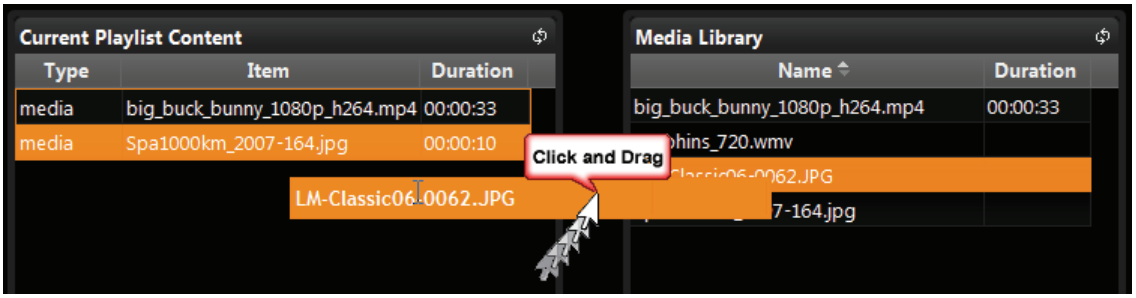
3. The media appears in the Current Playlist Content list.
4. Adjust the duration, enter Hour (HH) Minute (MM) and Second (SS)
   This duration means how long the media is displayed. Most of media (video files, Flash® animations...) have their own duration. Other media like pictures don't, for that reason; you have to set a duration of these media.

***Tip**: For non video media, add duration information in the file name (i.e. myflash_3m43s.swf) before transferring it in the MIP HD.*

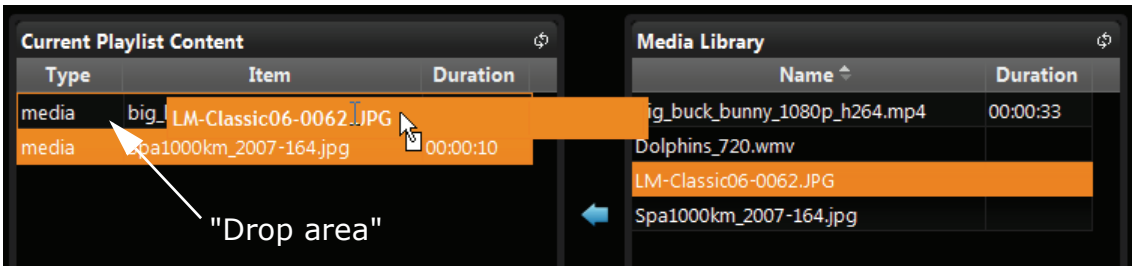
Method B

You can also use the Drag and Drop to add Media in the Playlist.

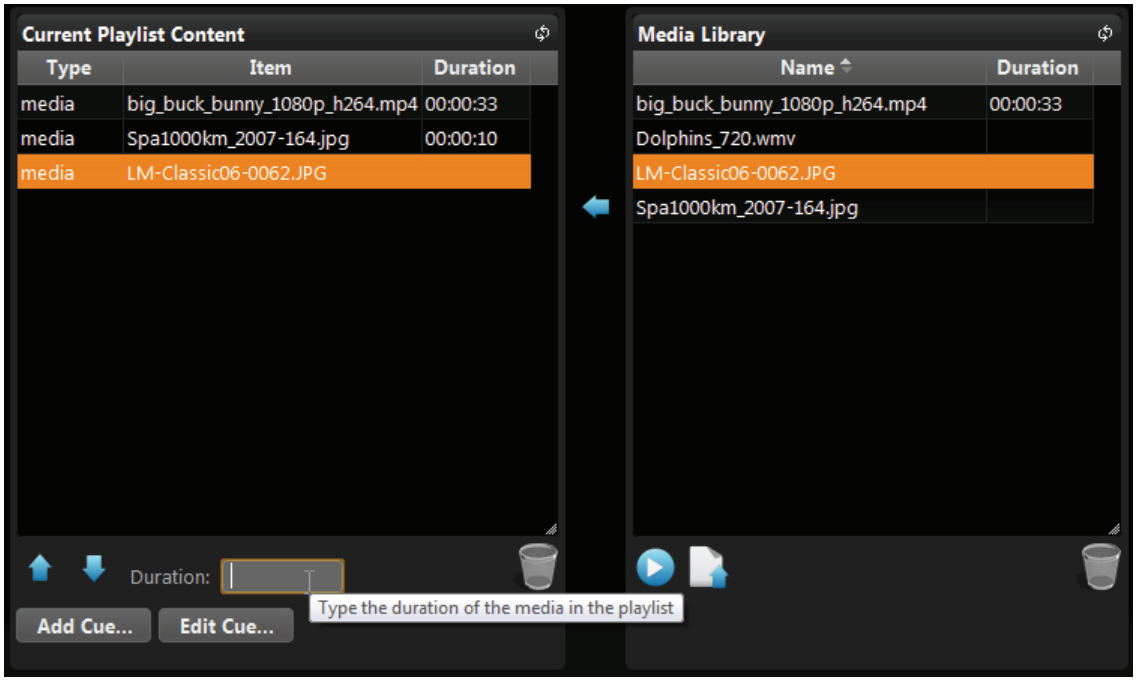
1. Select a Media in the Media Library.



2. Drag and drop it into the Current Play Content "drop area" where list borders are highligthed.



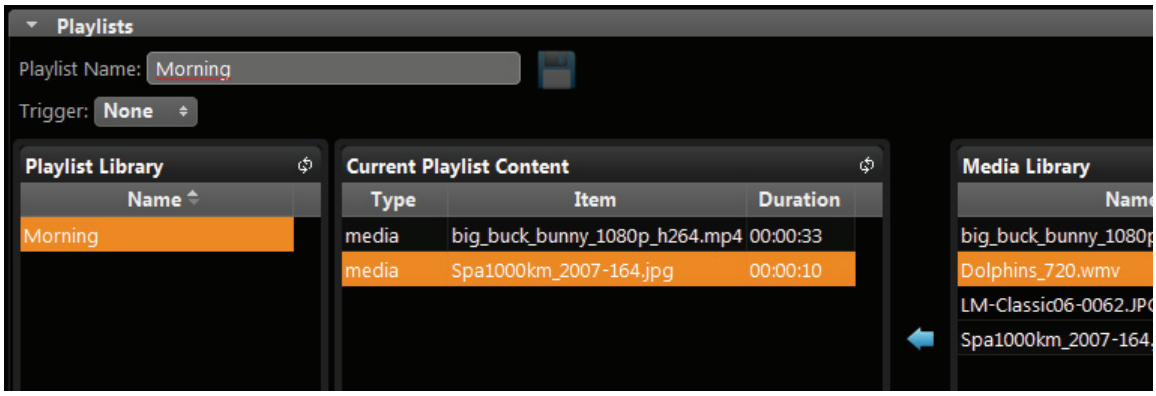
3. .The media is inserted at the end of the Playlist.



4. Adjust the duration, enter Hour (HH) Minute (MM) and Second (SS)
   This duration means how long the media is displayed.

Save the Playlist

To *save* the playlist on your Medialon MIP HD.



1. Enter the name of the playlist in the ***Playlist Name*** field
2. Click on ***Save*** button
3. The new Playlist appears in the Playlist Library.

You can start a new Playlist.

Edit Playlist Content

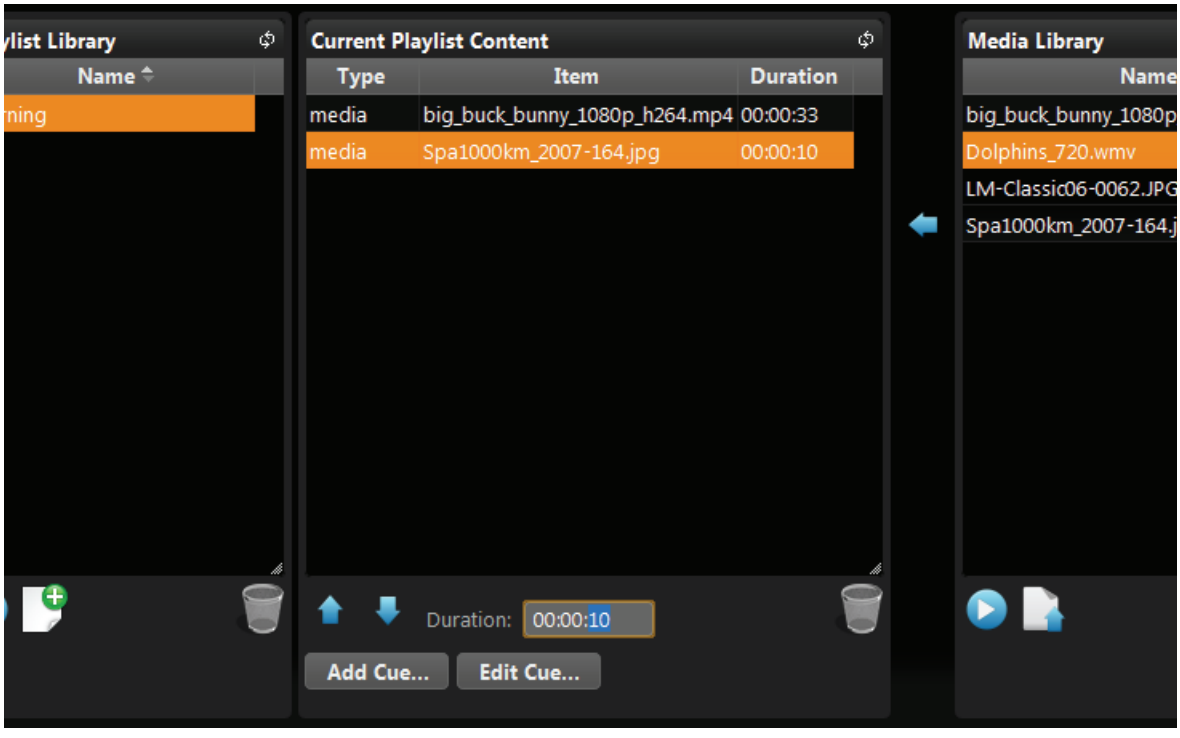
To edit a Playlist

1. Select a Playlist in the Playlist Library.
2. The media list of this Playlist appears in the Current Playlist Content.
3. Make your change

*DON'T forget to **Save** all your modification.*

Modify Media Duration

1. Select the media in the Current Playlist Content list.



2. Modify the duration. enter Hour (HH) Minute (MM) and Second (SS)

Modify Media Order

To *move* the position of a media into the playlist:

1. select a media from the Current Playlist Content list
2. click on ***Up*** or ***Down*** buttons

Remove Media from Playlist

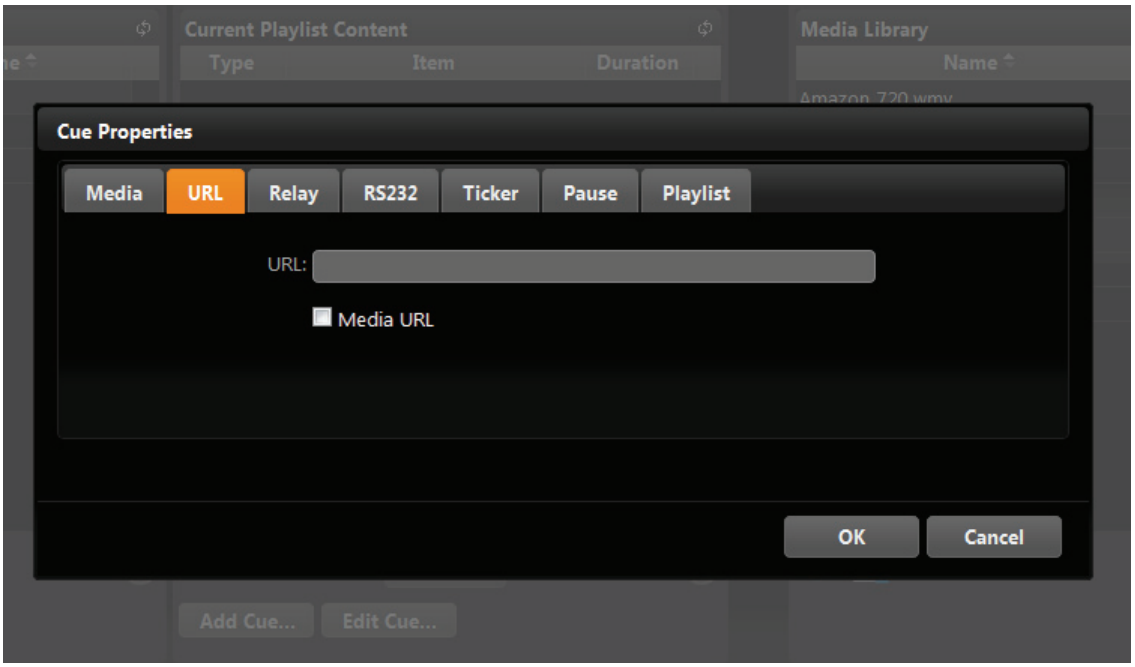
To remove a media from a playlist:

1. select a media from the Current playlist content list
2. click on ***Remove media*** button

Add URLs and Control Cues

MIP HD Playlists can also contain other cues like URLs, serial commands, ...

Click on **Add Cue...** button. A pop up windows opens.



Display a URL

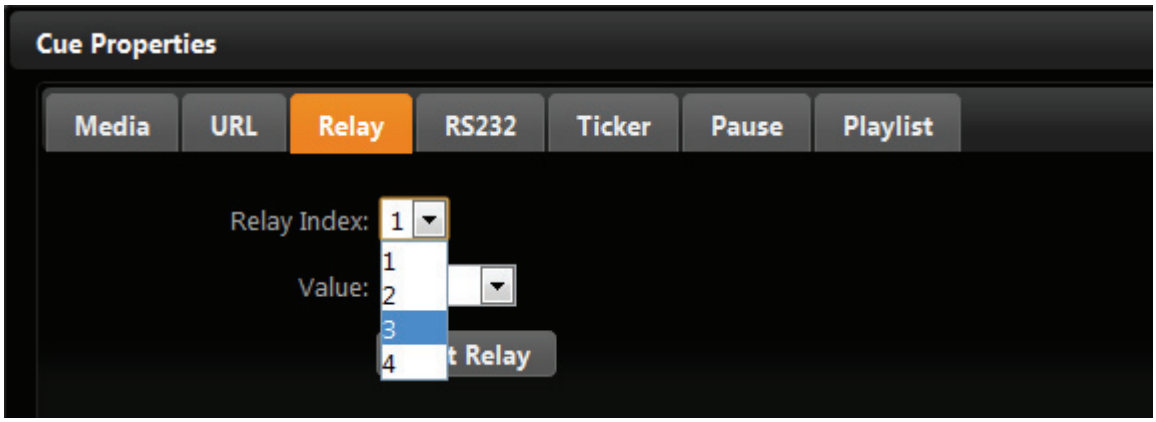
If the **MIP HD** is connected to Internet during playback operation, you can add a URL into a playlist:

Enter a valid URL *(i.e.: http://www.medialon.com).*

In case this URL is a video content like a stream, check ***Media URL*** option to force Medialon MIP HD playing video.

Use a Relay

When an I/O interface is connected, Medialon MIP HD can control output relays.



Relay Index: Select the relay in the list.

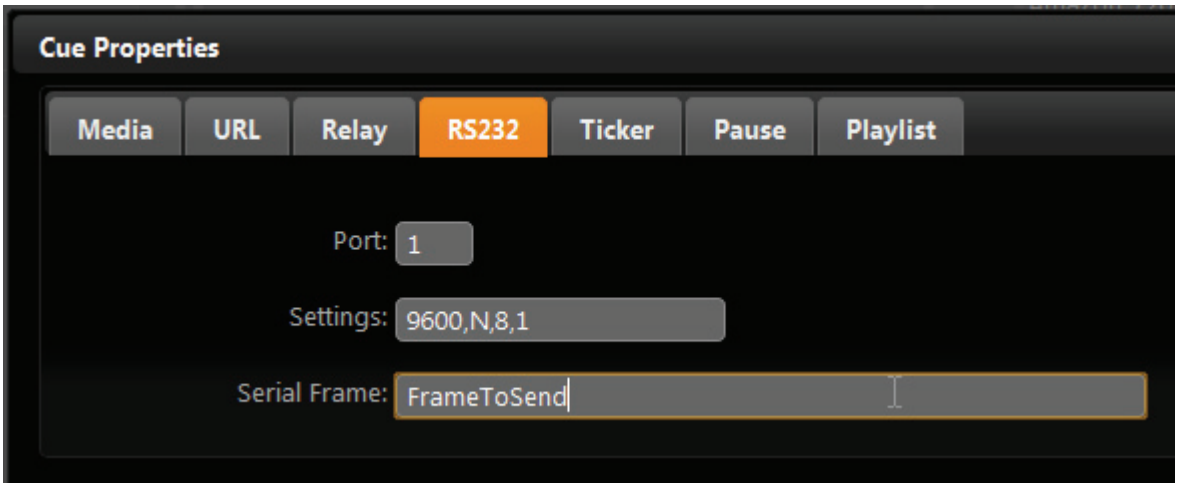
Value: set the status of the relay.

- On
- Off
- Toggle
- Pulse

Use the ***Test Relay*** button to check the relay command. See "Relays and Triggers Specifications" on page 85.

Send a Serial Command

Medialon MIP HD allows controlling display screen or video projector connected to its COM port.



Settings: Defines serial communication parameters:

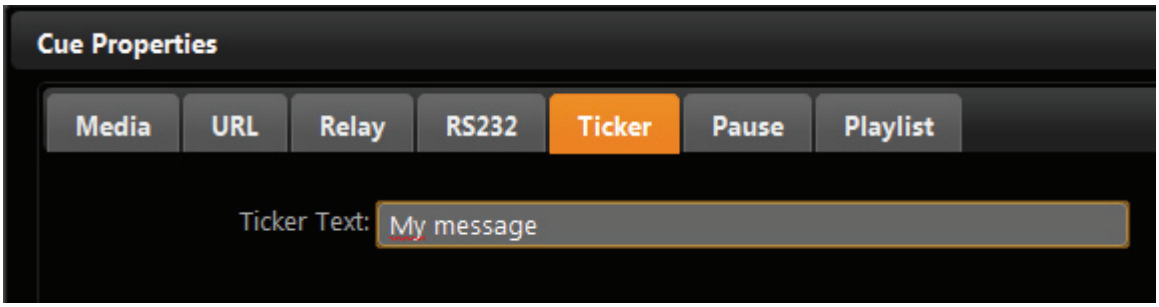
- Baudrate: 9600, 19200, 38400, ...
- Parity: None,Odd,Even
- Data: 8 bit
- Stop Bit: 1

Serial Frame: enter the frame to execute the command.

You need to get the serial protocol for your screen or projector.

Program a Ticker

You program to show or hide ticker during the playlist.



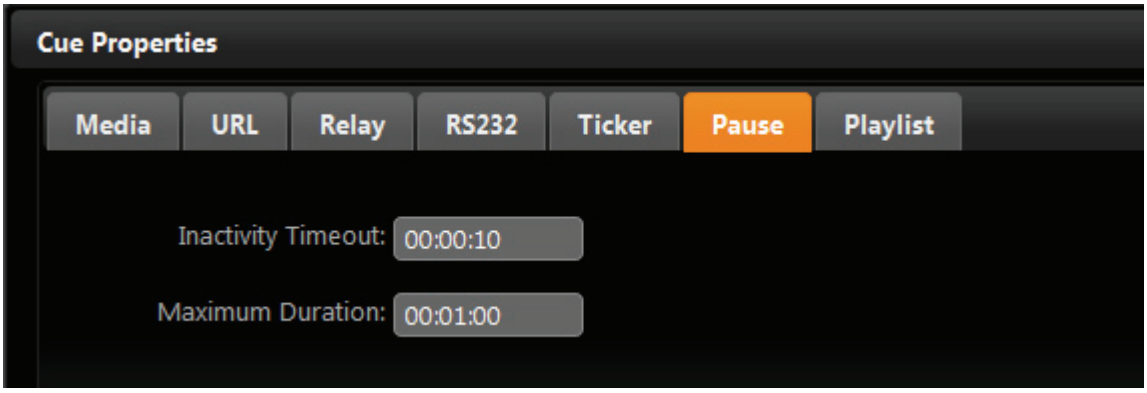
Enter your message to show the ticker.

To hide the ticker, enter an empty text.

Ticker will use MIP HD ticker settings, See more about "Display a Ticker" on page 57.

Insert a Pause

When an interactive media is displayed, you can insert a pause in the playlist execution to be able to navigate into the media.

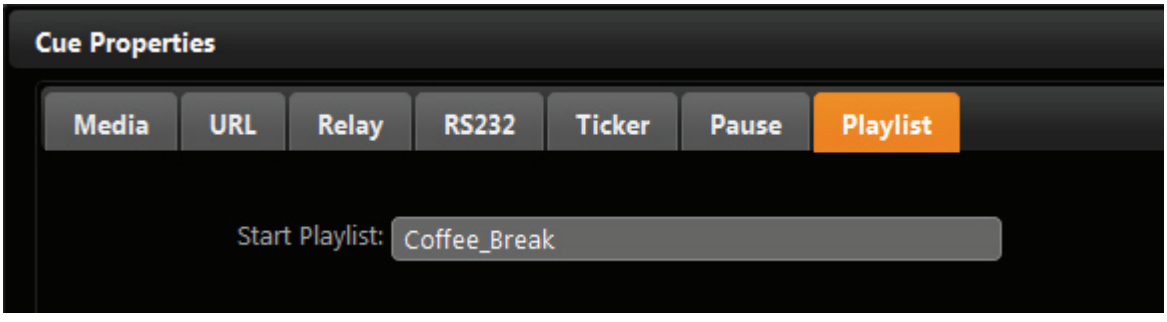


Inactivity Timeout: set minimum time of inactivity of mouse or keyboard before ending the media and start the next one in the playlist.

Maximum Duration: Set maximum time of use of this media before starting the next media.

Start another Playlist

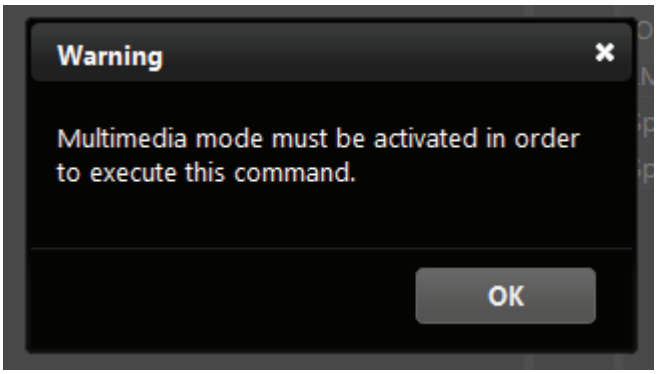
Pause the current playlist, start a second playlist. At the end of this playlist, resume the current playlist.

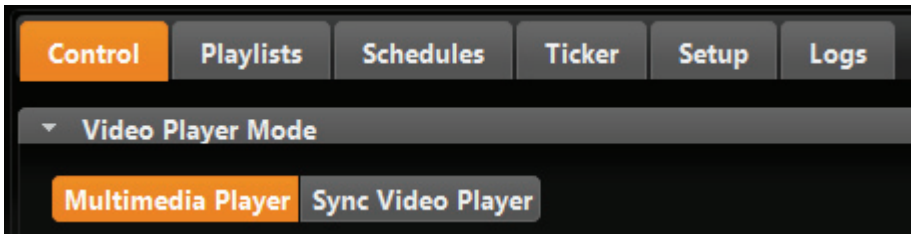


Start Playlist: enter the playlist name you want to display.

Play a Playlist

Medialon MIP HD needs to be switched in Multimedia Player. Go to Control to change player mode.

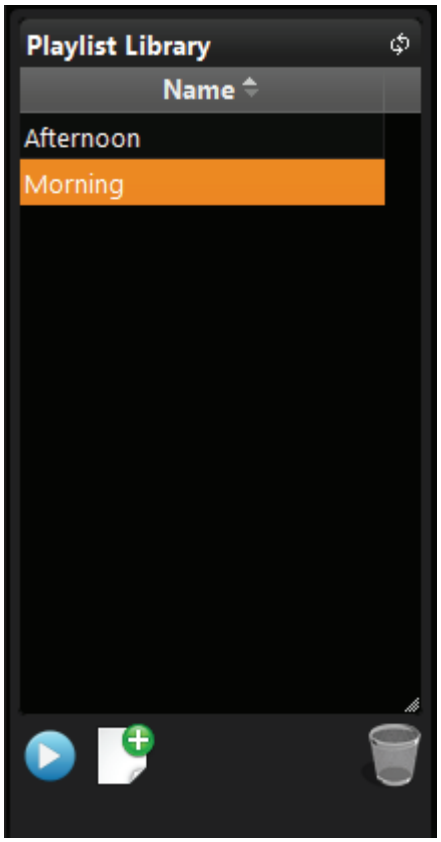




All created playlists are available in the Playlist Library.

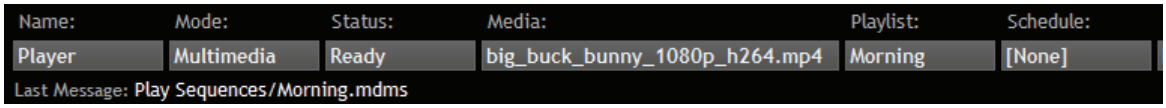
Start a Playlist

To playback a playlist from the Playlists Library:



1. Select a playlist from the list
2. Click on ***Start Playlist*** button

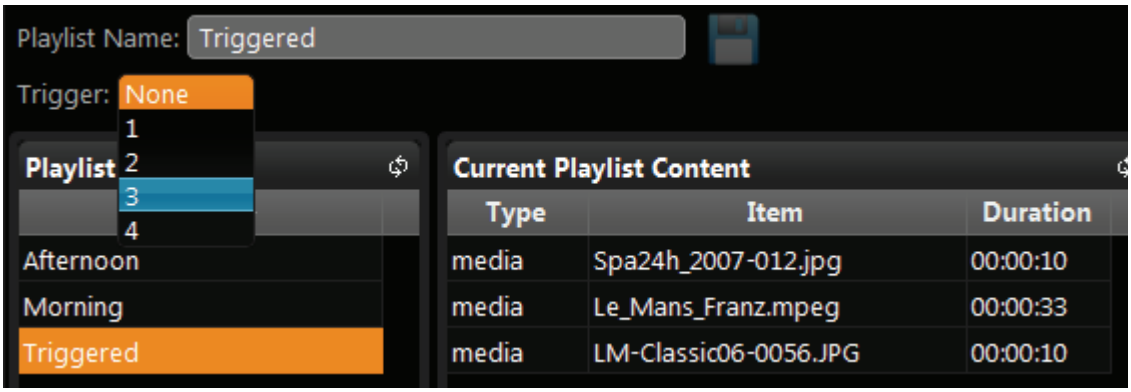
3. This Playlist is played in loop until a new Playlist starts.



Start a Playlist with external trigger

It is possible to start a Playlist with an external trigger like a button or a presence detector. See "Relays and Triggers Specifications" on page 85.

1. Select a Playlist in the Playlist List.



2. Select valid trigger input #.
3. Select the Trigger condition

- **Go Up**: The playlist starts when the trigger goes up (On) and played one time.
- **Go Down**: The Playlist starts when the Trigger goes down (Off) and played one time.
- **Up**: The Playlist is played while the trigger is up (On)
- **Down**: The Playlist is played while the Trigger is down (Off)

In combination with the condition, 2 options are available.

Restart on Trigger: If the condition becomes true during the Playlist's playing, **MIP HD** restarts the Playlist. If this option is not selected, the Trigger has no action until the Playlist reached its end.

Stop on Opposite: When the Trigger status change, it is possible to stop the triggered Playlist and not waiting its end.

*DON'T forget to **Save** the Playlist.*

Playlist Library

To *remove* a playlist from the Playlists list:

1. Select a playlist from the list
2. Click on ***Remove*** button

Click on ***Refresh List*** button to update the content of the *Playlists List*

Scheduling Playlists

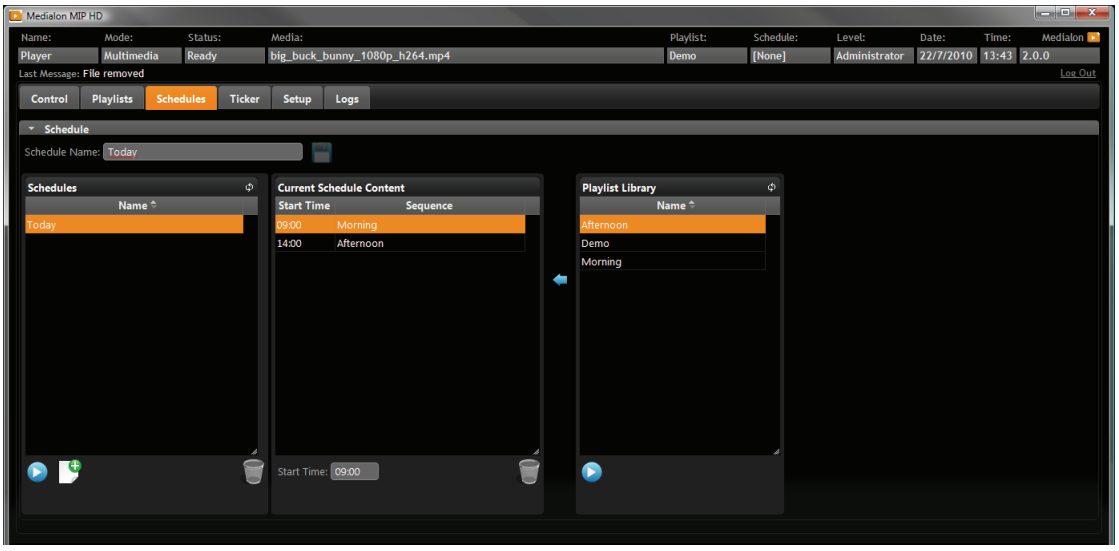
When you want to play different Playlists at different hours of the day, you're going to schedule your Playlists.

Schedules

A schedule starts a Playlist at a defined time of the day, and loops indefinitely while another Playlist is not started. The schedule runs from 00:00:00/00 to 23:59:59/00.

Note that there is no weekly schedule.

To start a Schedule, go to ***Schedules*** tab

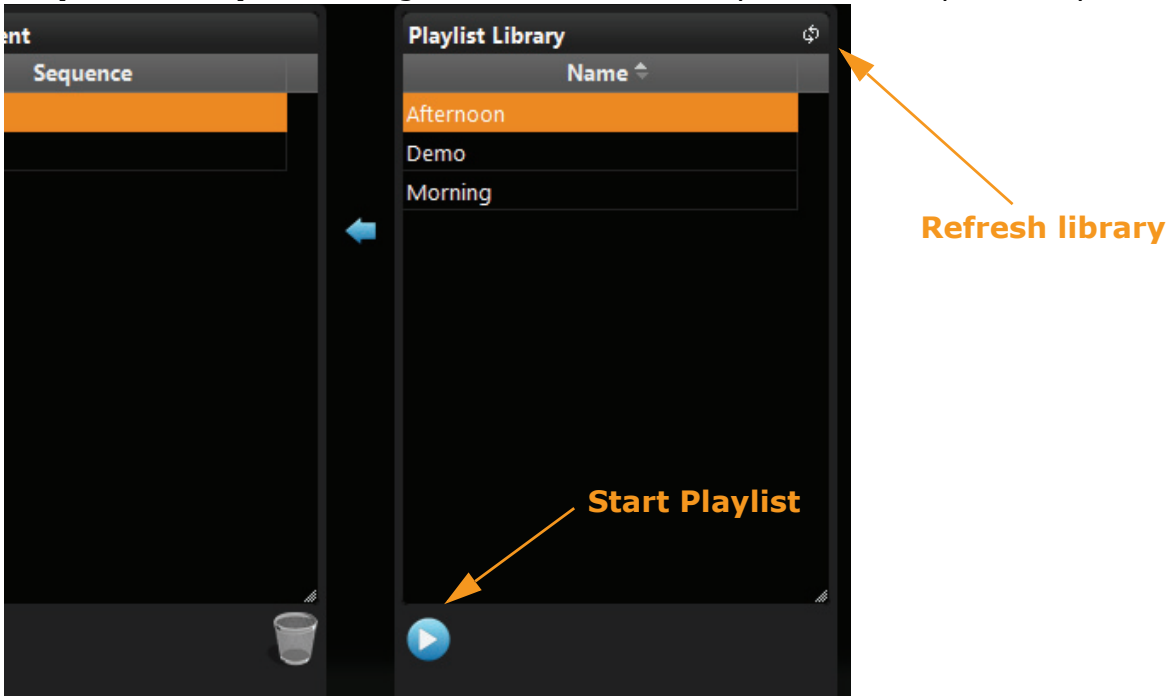


This page is divided in 3 panes. **Playlist Library** to manage Playlists, **Current Schedule Content** to view and edit schedule, **Schedulest** to manage Schedules.

This tab is accessible with Administrator or Editor level.

Test a Playlist

Playlist Library on the right contains all the Playlists created previously.



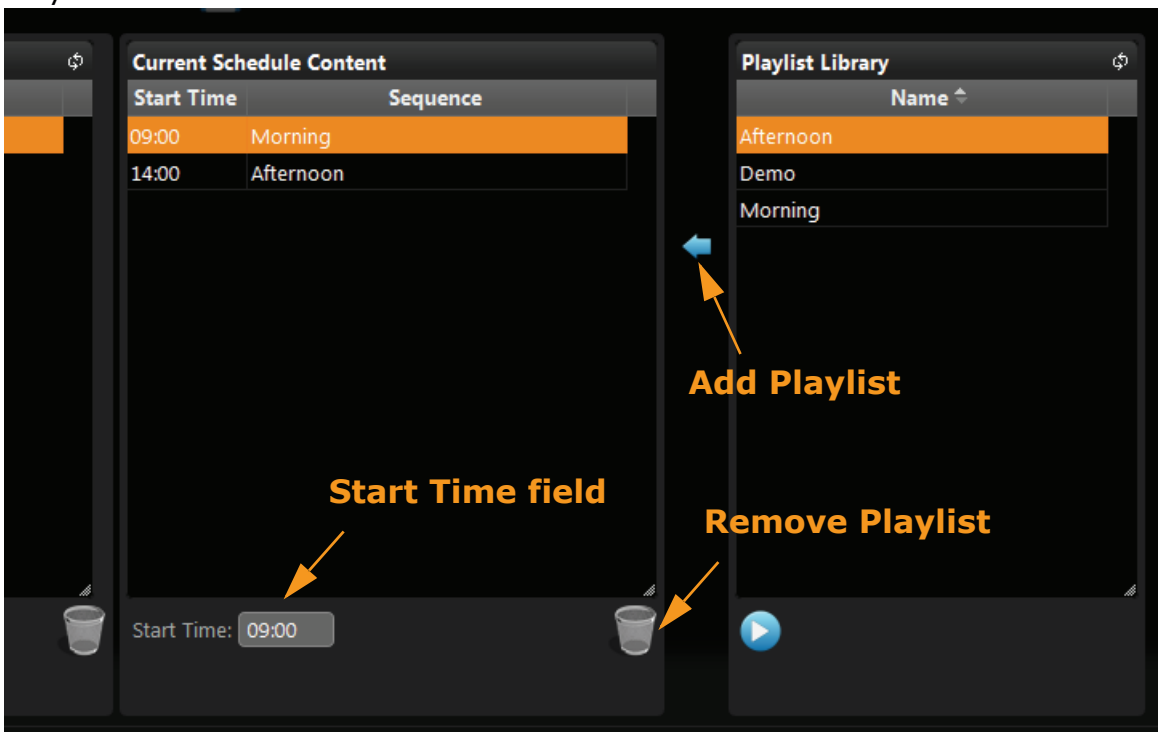
To playback a Playlist:

1. Select it from the list.
2. Click on ***Play*** button.

*To update the Library, click on **Refresh** button*

Create a Schedule

The **Current Schedule Content** section allows to create and edit a schedule of Playlist.



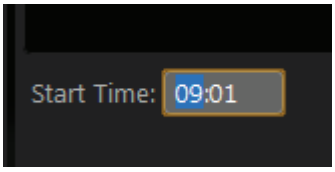
***Note**: The time reference is based on computer clock (displayed in the status bar). Because of the clock precision, start times of Playlist can lose their accuracy.*

To create a Schedule

1. Select a Playlist from the Playlist Library
2. Drag and Drop into the Schedule Content or click on ***Add Playlist*** button
3. Define the Start Time in hour and minute.

To change the start time value of the Playlist

1. Select a Playlist from the Current Schedule Content list
2. Enter the new value (Hour:Minute) for Start Time



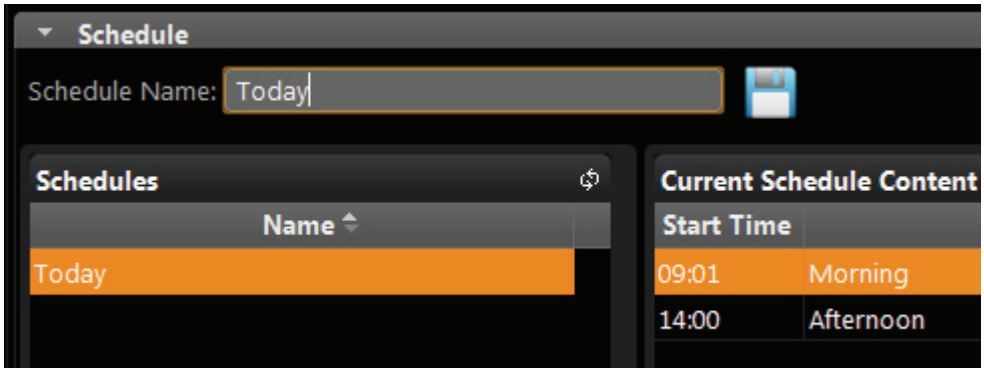
Mouse wheel can be used to increase or decrease time value.

To remove a Playlist from the current schedule:

1. Select a Playlist from the Current Schedule Content list
2. Click on ***Remove Playlist (trash)*** button

To save a schedule of Playlists:

1. Enter the name of the schedule into the Schedule Name field



2. Click on ***Save*** button

The current schedule is saved into the Schedules list. You can create several schedules and reload them as needed.

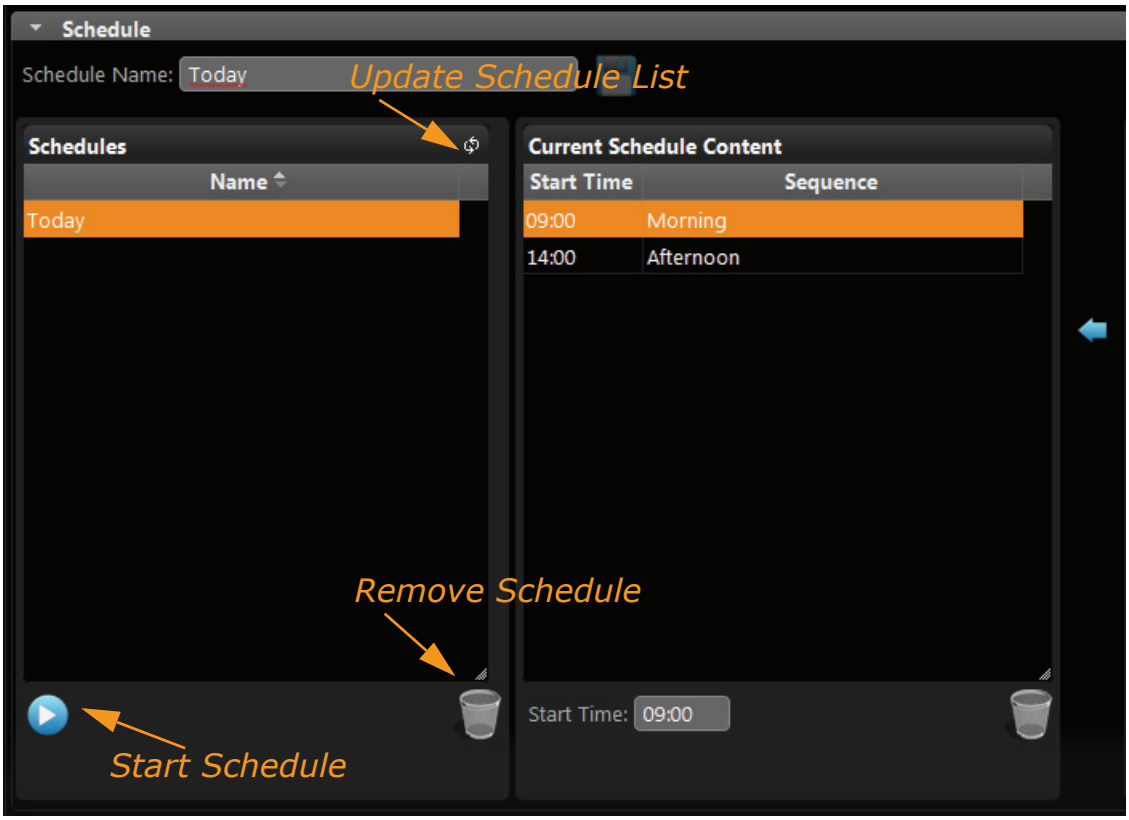
To Edit a Schedule

1. Select a Schedule in the Schedule List
2. The list of Playlist content by this Schedule appears in the Current schedule content list

*DON'T forget to **Save** all your modification.*

Start a Schedule

All Schedules created are available in the **Schedules** List



To start a schedule

1. Select a schedule from the list.
2. Click on ***Play*** button to start the schedule.
3. Medialon MIP HD starts to play the Playlist according to current time and Playlist start time.

To remove a schedule from the list

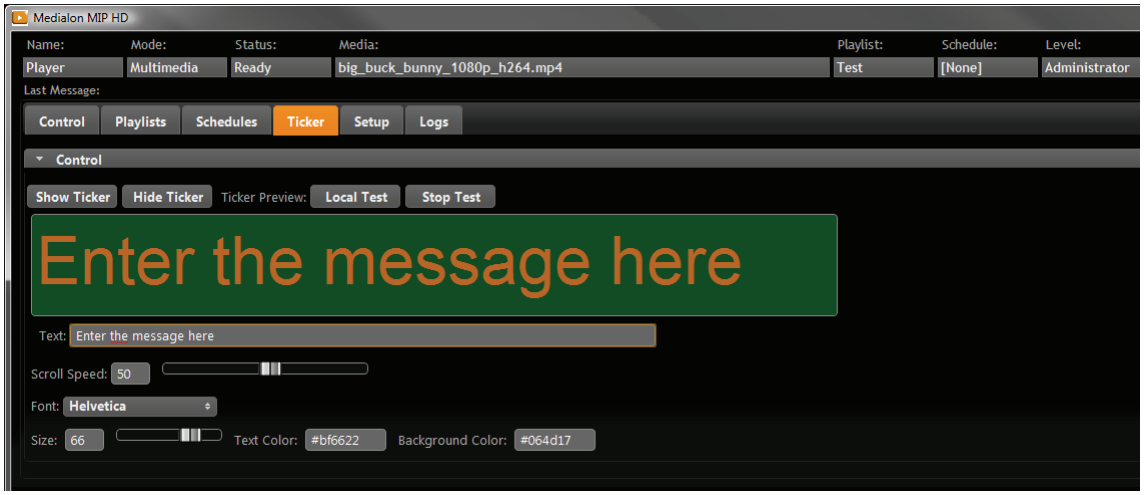
1. Select a schedule from the list
2. Click on ***Remove Schedule*** (Trash) button to delete the schedule from the list

*To update the list of schedules. Click on **Refresh** button*

Display a Ticker

The Ticker is a scrolling text displayed on **MIP HD**'s foreground. It can be sent dynamically and some parameters can be changed.

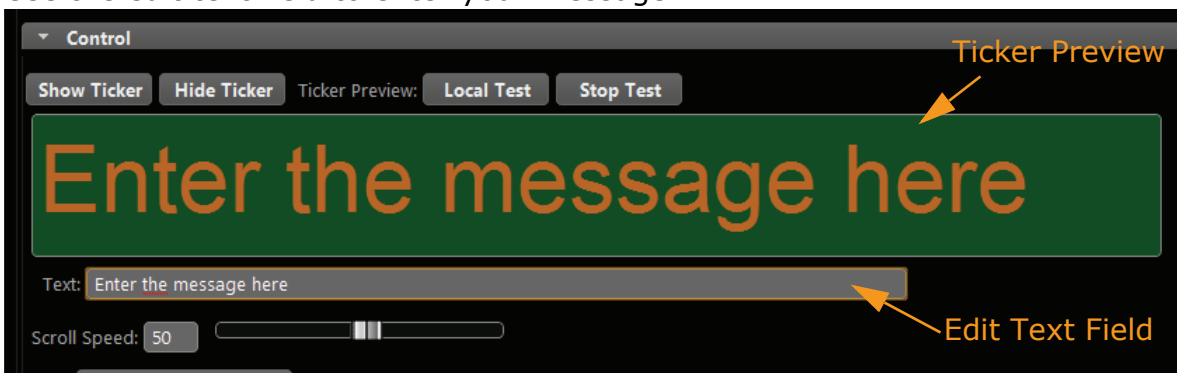
It is possible to display a simple message at anytime in a scrolling banner at the bottom of the screen, goto ***Ticker*** tab



This tab is accessible with Administrator ,Editor or Ticker level.

Enter Ticker Text

Use the edit text field to enter your message.



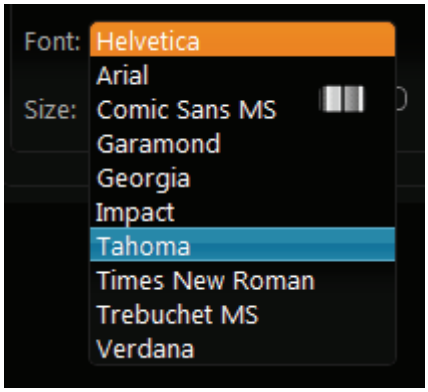
Ticker Preview displays your message as it will be shown in the MIP HD.

You can easily change the properties of the text by selecting the appropriate settings for:

- Size
- Font
- Color
- Background Color
- Scroll Speed.

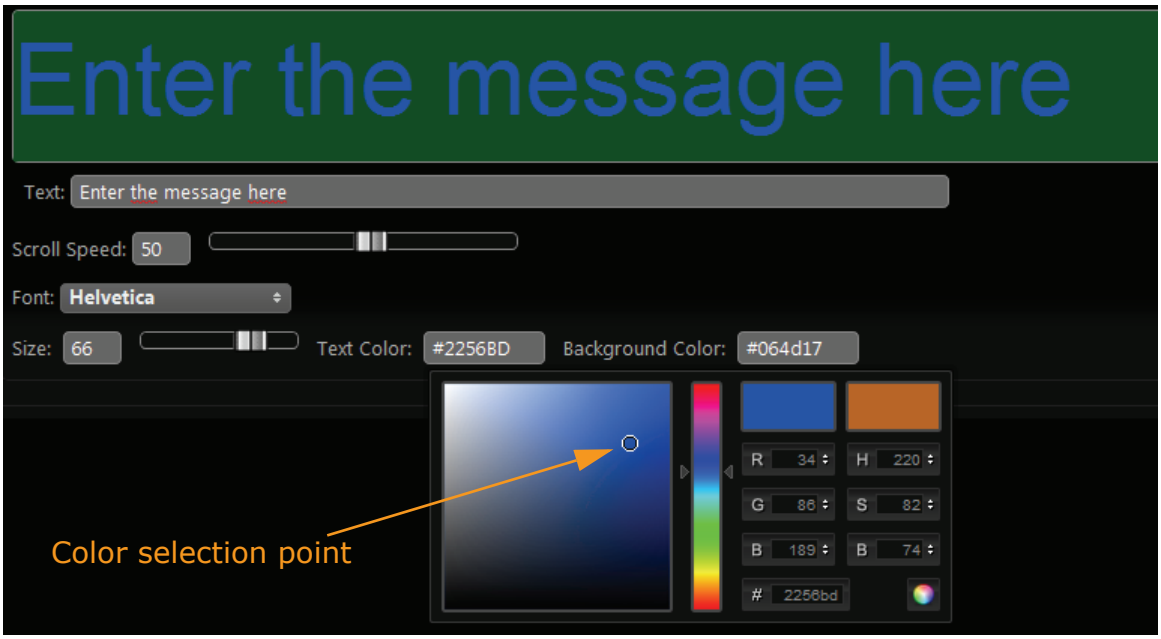
Font selection

Select the font in the font list



Color selection

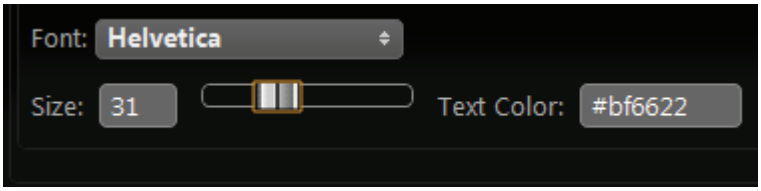
To change the color of the ticker:



- Click on ***Text Color*** to select the text color.
- Click on ***Background Color*** to select the background color.
- Use the Color palette to define the desired color.

Ticker Size

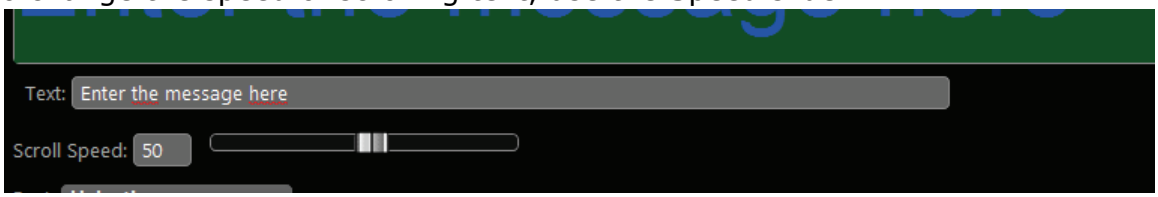
To change the height of the Ticker, use the Size slider.



Size value goes from 0 to 100 pixels. Text and background banner size are linked.

Ticker Scroll Speed

To change the speed of scrolling text, use the Speed slider.

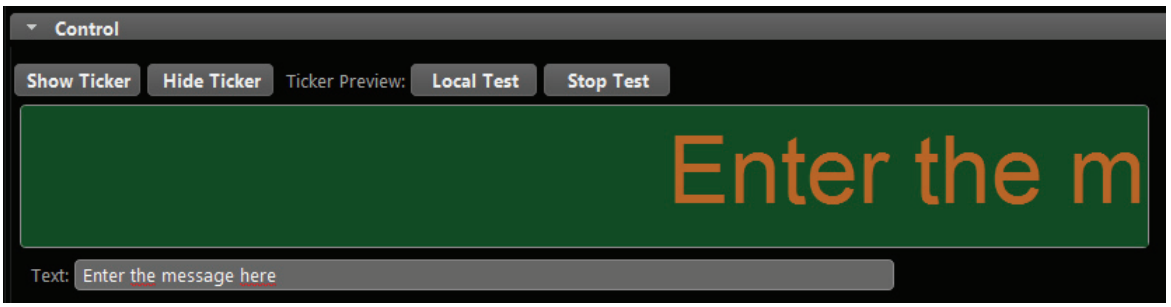


Speed value goes from 0 (Slow) to 100 (Fast).

Testing Ticker

MIP HD Ticker tab offers a preview for testing your message settings

1. Enter the text of the ticker into the text field and adjust text properties.
2. Click on ***Local Test*** button to start the local test.

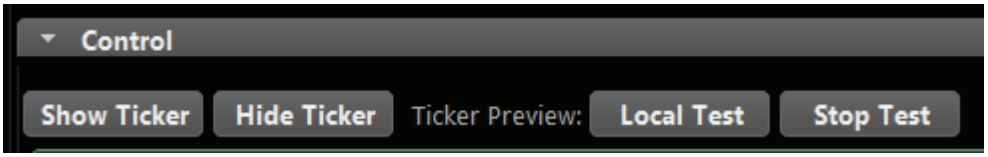


3. Ticker message starts to scroll into the Ticker preview
4. Click on ***Stop Test*** button.

Display Ticker

To display on a ticker on the Medialon MIP HD

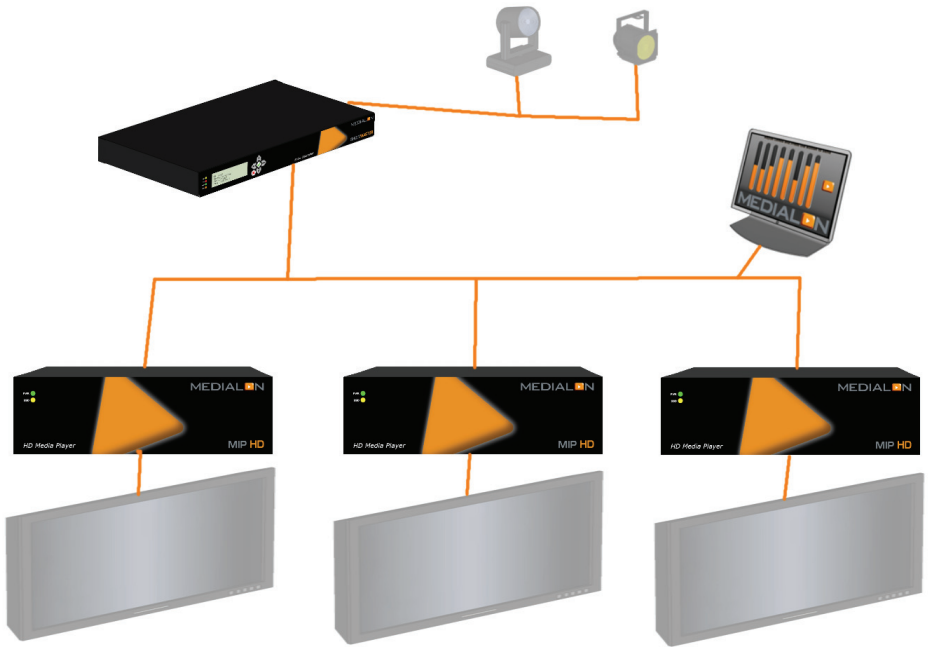
1. Enter the text of the ticker into the text field and adjust text properties.
2. Click on ***Show Ticker*** button.



3. To display Off the Ticker on the MIP HD, Click on ***Hide Ticker*** button.

External Control

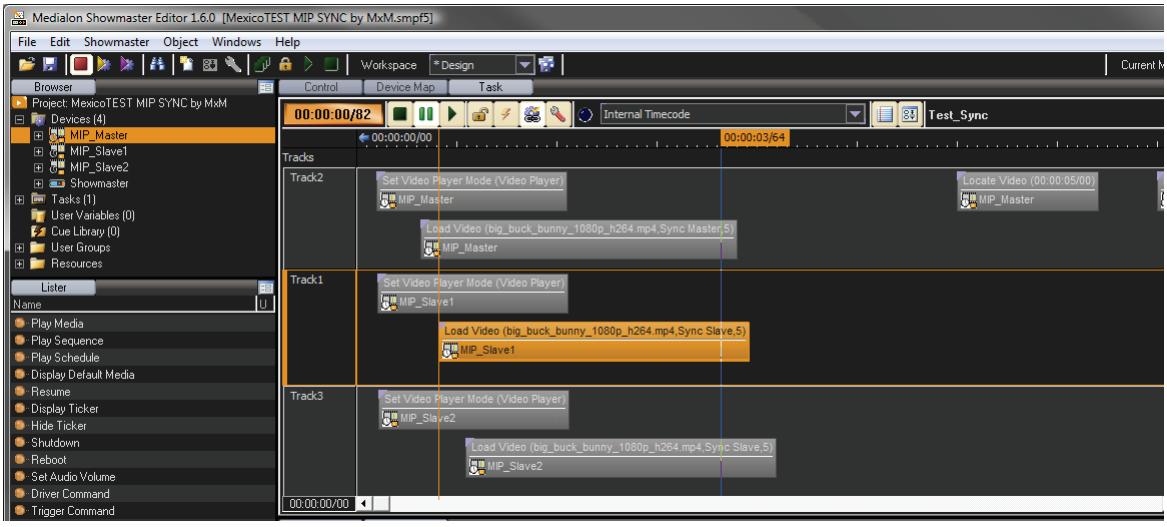
Although it is possible to use the **Medialon MIP HD** as a stand alone system, it is also designed to be controlled remotely from Medialon Control System.



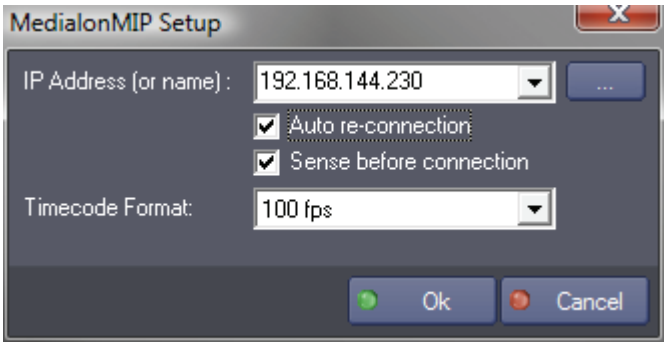
Discover the power of Medialon Control System, visit Medialon web site http://www.medialon.com/products/medialon_control_system.htm

MxM Medialon MIP

Medialon MIP HD can be part of a Show Control System. Medialon Manager or Showmaster can control one or several MIP HD through the use of a software plug-in called MxM Medialon MIP.



MIP HD are declared as Medialon Manager Device.

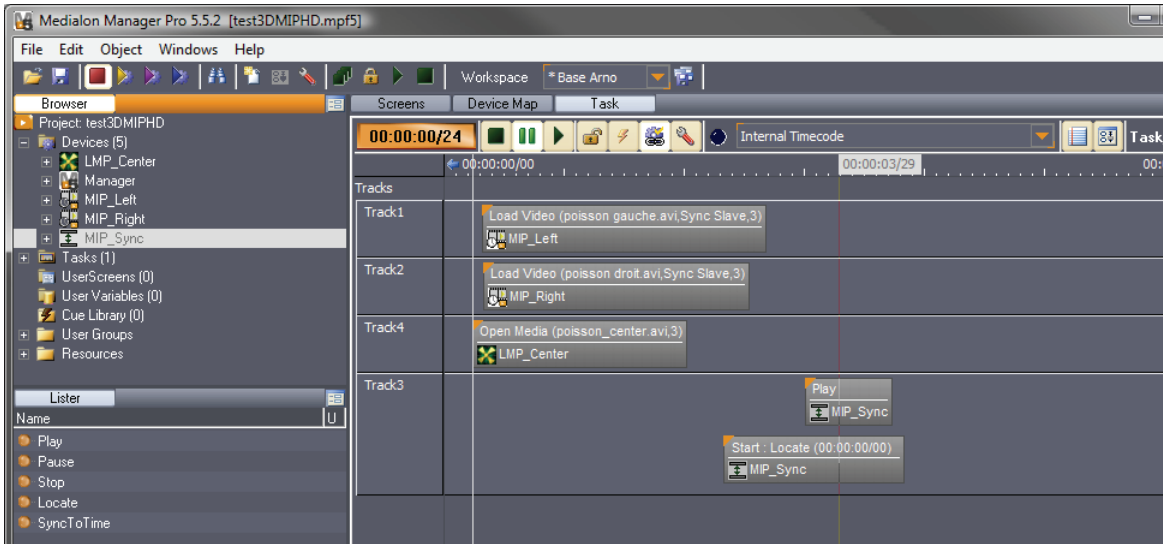


MxM Medialon MIP allows controlling MIP HD in Multimedia or Video Sync mode.

See more about MxM Medialon MIP on www.medialon.com

MxM Medialon Sync Master

This MxM can be used to synchronize Video playback on several Medialon MIP HD and also Medialon Manager Local Media Player.



This MxM allows playing the currently loaded media on all of the slaved Video Players of the Sync Group.

It is also possible to use an external timecode as a Sync time reference.

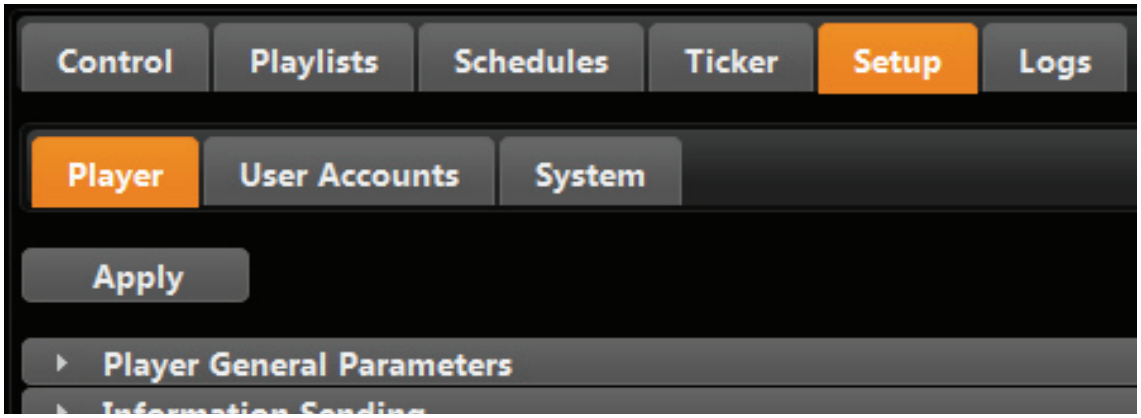
See more about MxM Medialon Sync Master on www.medialon.com

MAINTENANCE

In this section, you will learn how to maintain your Medialon MIP HD.

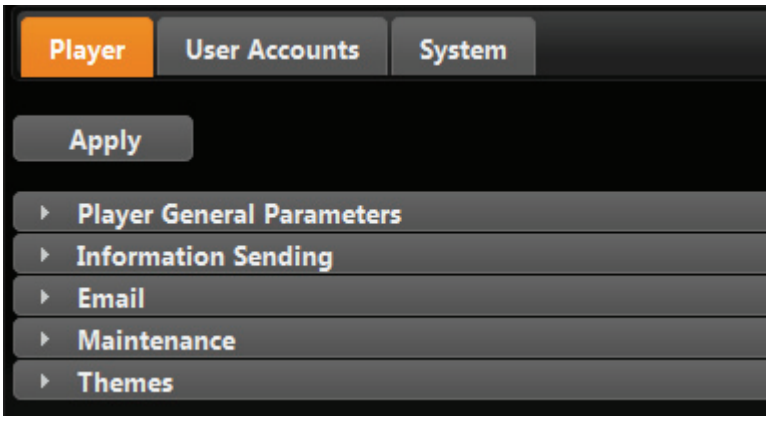
MIP HD Setup

This menu is only accessible with Administrator rights.



Player Setup

Select *Player* in the **Medialon MIP HD Setup** page

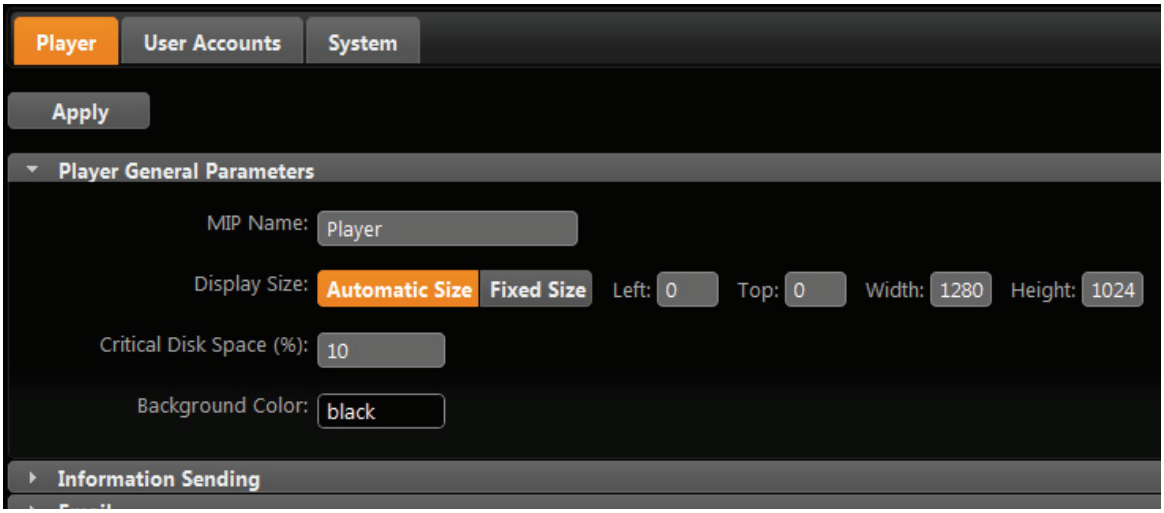


Several parameters of **MIP HD** can be defined, such as screen size, scheduling of screen power on/off, e-mail setting for log files sending etc … The **Setup** menu allows you to change the settings of the **MIP HD**
Because we are using an Html interface, you need to validate each modification by pressing the **Enter** key or click on **Apply** button.

General parameters

MIP HD general parameters are **MIP HD** name, Display size, Critical disk space

and Background color



- **MIP HD** Name: This name is displayed in the status bar on the top of the page. This name is also used in the filename of the log and playback reports sent by e-mail.
- **Display Size: MIP HD** display window can follow automatically the screen resolution, or you can change the size and position of this window.

1. Select Fixed Display Size and enter the new values: Width and Height and Top Left corner position.
2. Press **ENTER** on the keyboard, or click on the **Apply** button at the bottom of the page.
3. You normally don't need to change display size and position and keep Automatic settings

- **Critical disk space** %: Set here the free space disk percentage that **MIP HD** will keep FREE by erasing old files.

When **MIP HD** loads new media and sequences, it moves old ones in its own trash folder. As soon as the critical disk space limit is reached, **MIP HD** erases oldest media files from the trash folder.

- **Background color:** Set the **MIP HD** window background color (black is default).

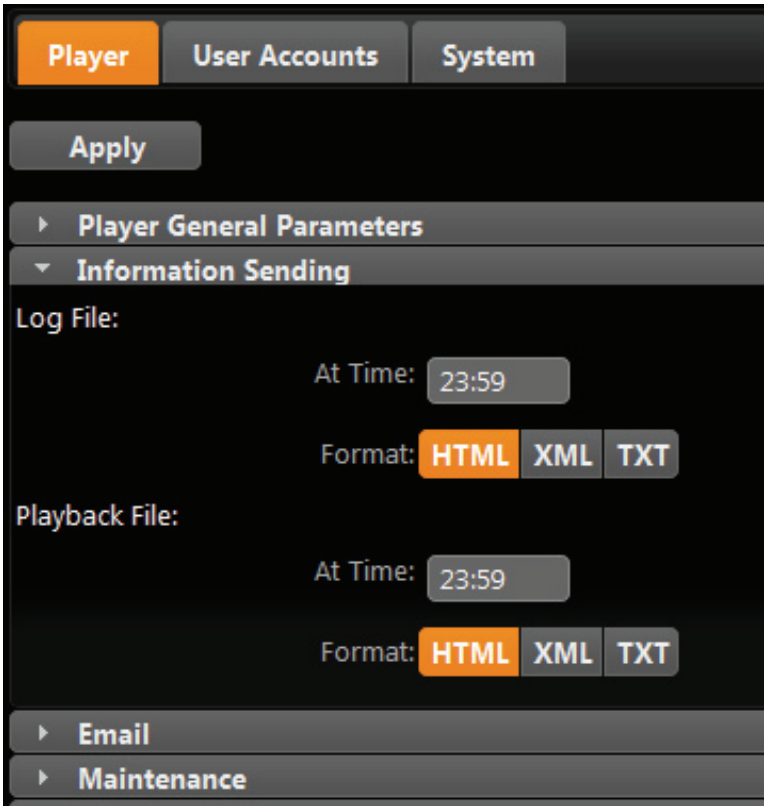
The background color appears when there is no media to display or when the displayed media does not fill the whole **MIP HD** window.

1. Click on **Select Color** button to open the Background color dialog page.
2. Select one; you can also enter the hexadecimal RGB color code to select extra colors.

Information sending

MIP HD automatically generates log files of technical events and playback report files listing all media playback information. A report is created every day, to consult them See "Logs Menu", page 74.

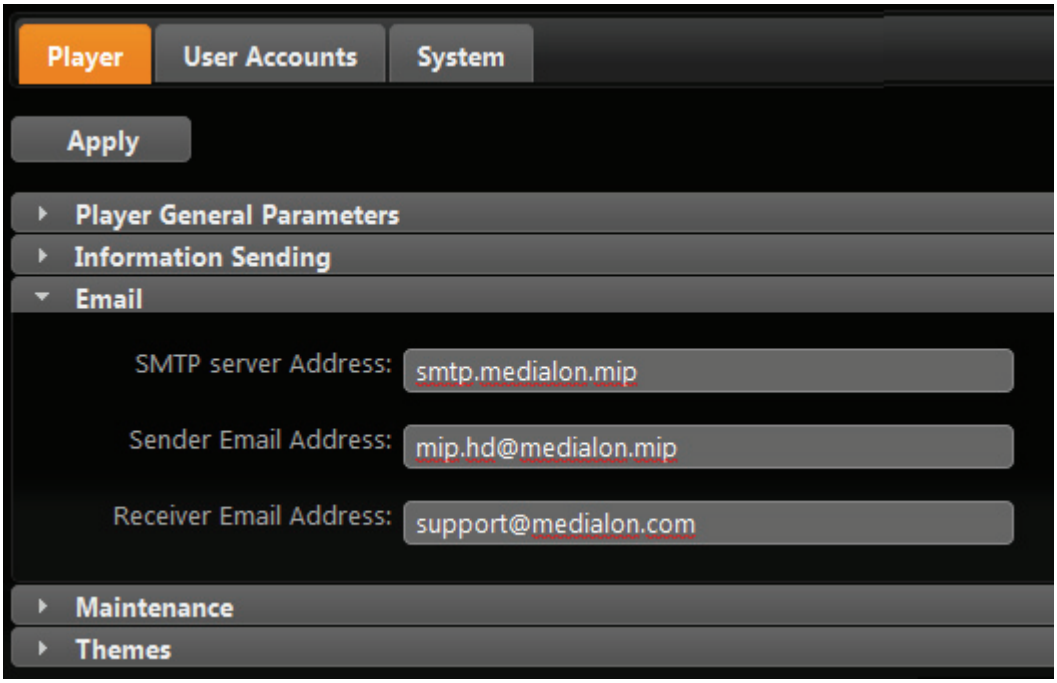
These files can be automaticaly sent to an email address. **MIP HD** needs to have a LAN or internet access.



1. Select the *"Send… by email"* options if you want the Log file and /or the playback report to be sent to the specific address (See below to define the email address in the specific parameters section)
2. Fill transmission time (HH:MM).
3. Select the file format to be sent (.html, .xml or .txt)
4. Click on **Apply** button (At the bottom of the page) to validate.

Email

The specific parameters section allows you to setup an email address to send log files and/or playback files.

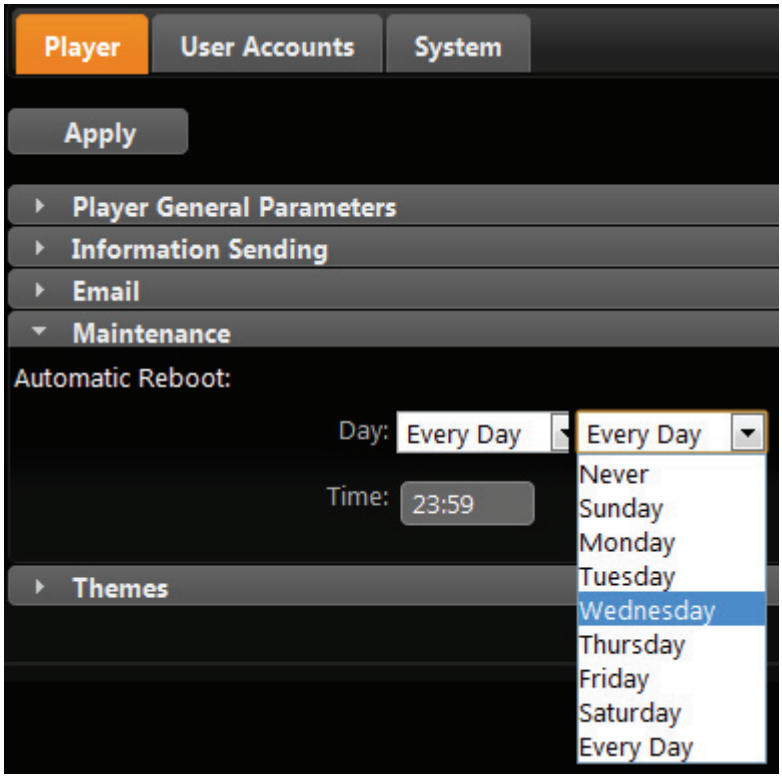


Email Setup.

1. Fill **SMTP Server Address** field *(*ie: smpt.capital.city)
2. Fill **Sender Email Address** field(ie: omer.simpson)
3. Fill **Receiver Email address** field(ie: marge.simpson@capital.city)

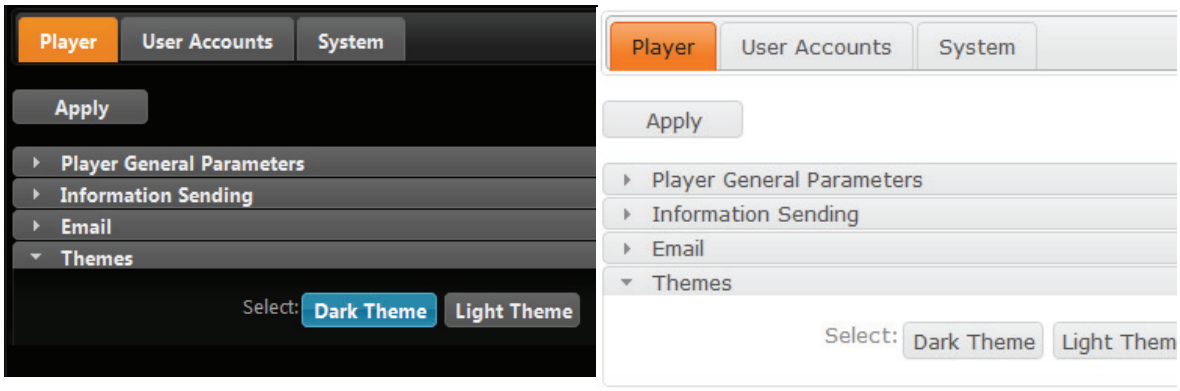
Maintenance

You can program an automatic reboot for Medialon MIP HD



Theme

Medialon MIP HD user interface theme can be changed.

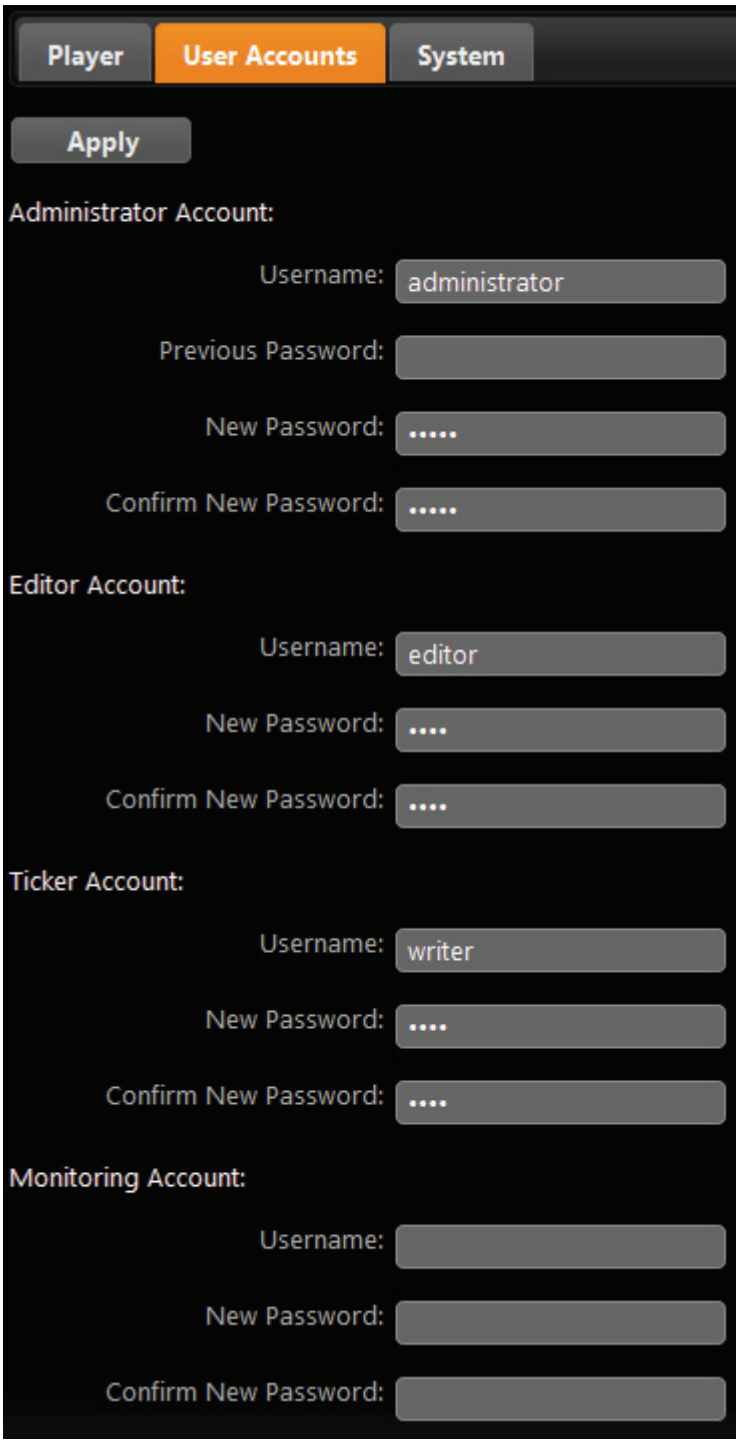


User Accounts

It is possible to protect access to the Medialon MIP HD interface. Different access levels can be defined. The **User Accounts** menu is used to change the account settings

This menu is only accessible with Administrator level.

Different types of users may have different access levels to commands in **MIP HD** depending on their login and passwords.



- **Administrator**(*Access all menus)* This account is defined to have access to **MIP HD** parameters modification.

- **Editor***(Restricted access to all menus except Setup)* This account may be used by Sequences and Scheduler creator.
- **Ticker***(Restricted access to Ticker and Monitoring only)* This level gives access to simple text message generator.
- **Monitoring***(Restricted access to Monitoring only)* This account gives access to the **MIP HD** Log files

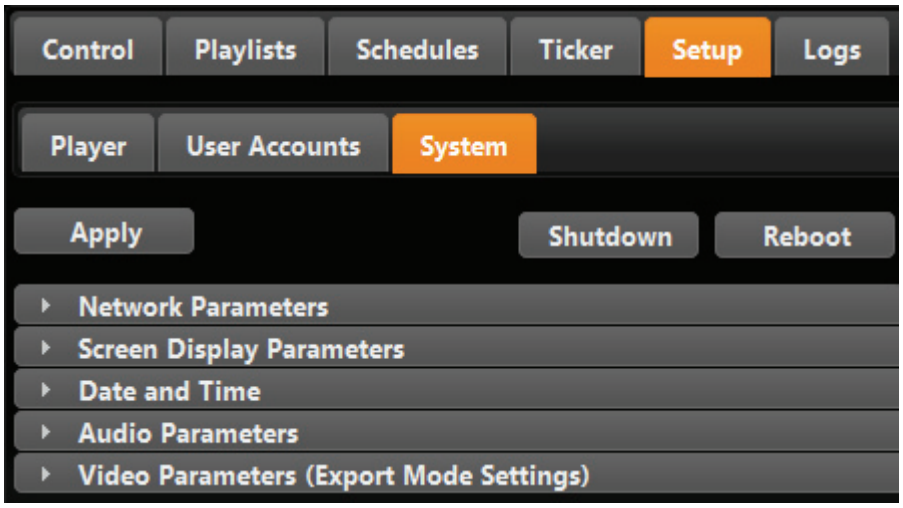
For each account you have to enter a **Login** and a **Password.** (This one must be confirmed).

If you define a login and password only for the Administrator account, everybody will be able to access with Editor Rights and could be able to create new sequences.

System

This menu is only accessible with Administrator level.

Select *System* in the **Medialon MIP HD Setup** page



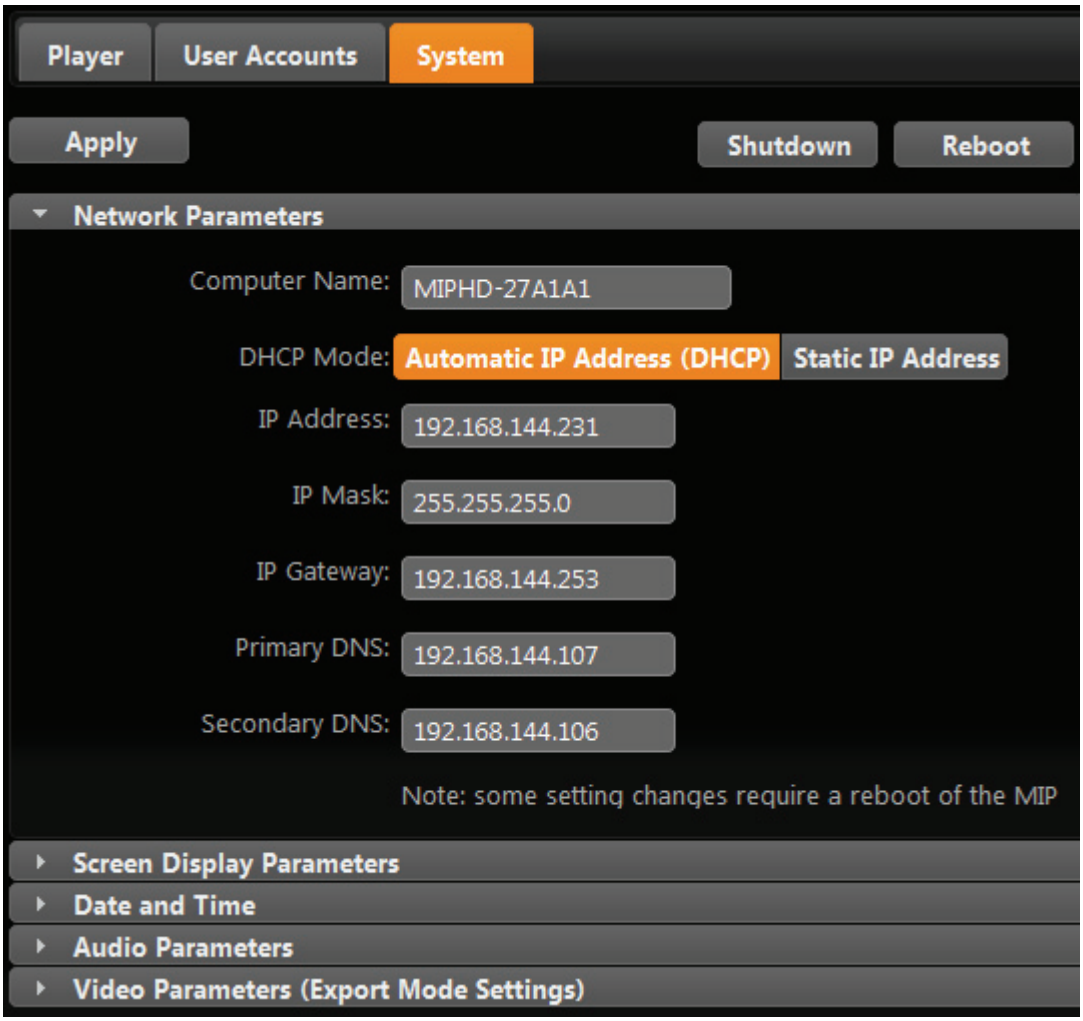
Apply Button: click on this button validate all your system changes.

Shutdown Button: use this button to shutdown Medialon MIP HD.

Reboot Button: use this button to reboot Medialon MIP HD.

Network Parameters

All operations described below must be done by an appropriate technician or your network administrator.



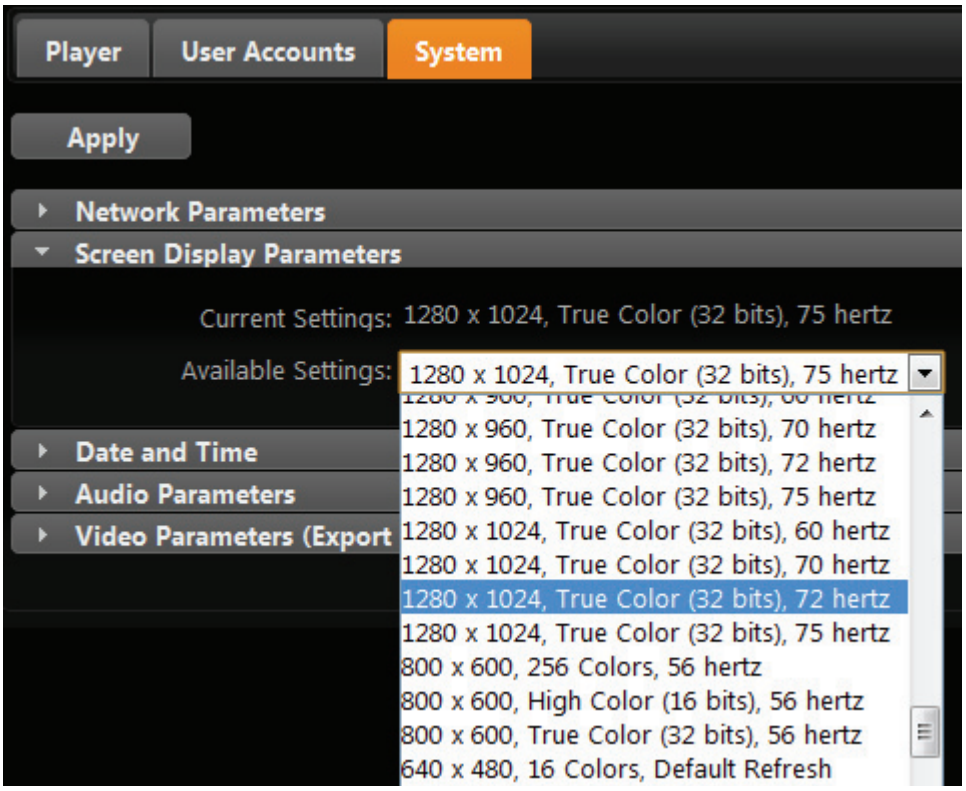
- Computer Name:
- Automatic or Static IP Address
- Automatic or Staitc DNS

The **MIP HD** *may reboot after these change.*

- Click on Apply to validate them.

Display Parameters

- Select from the list the required settings.

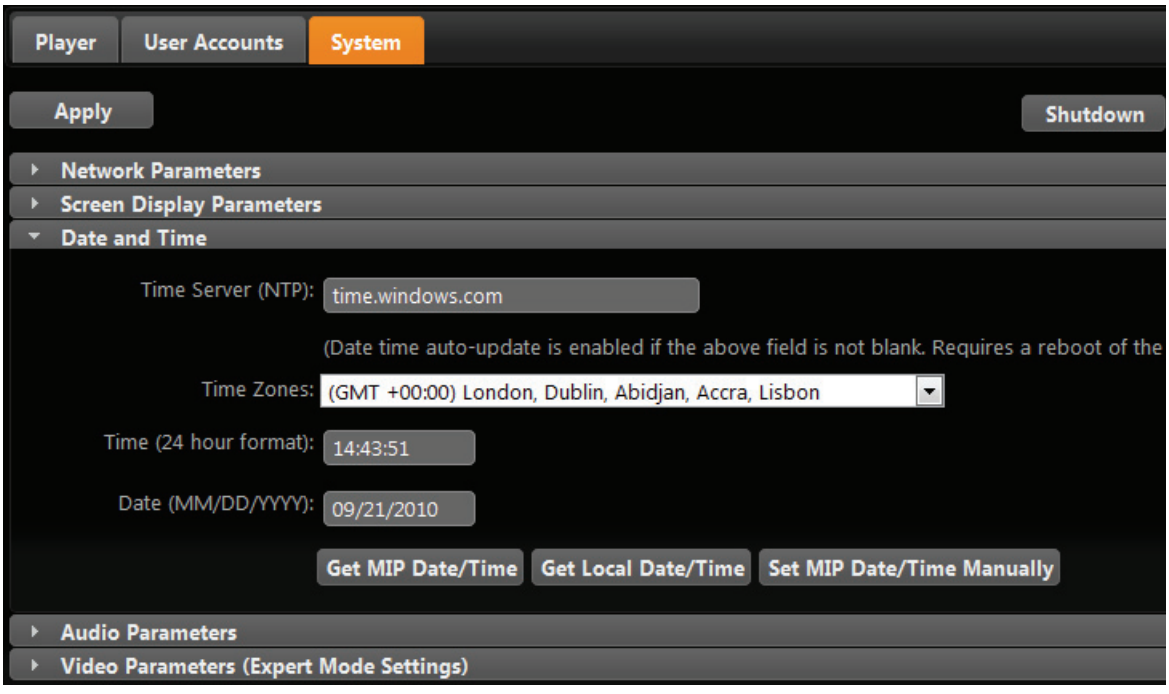


The **MIP HD** *may reboot after these change.*

- Click on ***Apply*** to validate them.

Date and Time

Adjust Date and Time of your Medialon MIP HD.



Time Server (NTP): Displays the internet time server (time.windows.com by default) used by MIP HD to synchronize its current time. You can select another time server or set this field to blank if you don't want to auto update the MIP HD

clock.

Medialon MIP HD reboot is required after changes.

Time Zones: Set the time zone where your Medialon MIP HD is installed. Click on ***Apply*** to validate your modifications.

Time: Displays the Time retrieved by a GET button. You can adjust this time. This displayed time will be used by the SET button.

Date: Displays the Date retrieved by a GET button. You can adjust this date. This displayed date will be used by the SET button.

Get MIP Date/Time: retrieve the current date and time of MIP HD.

Get Local Date/Time: get current Date and Time from your remote PC.

Set MIP Date/Time: Set the Date and Time to your MIP HD, the values correspond to Time and Date field.

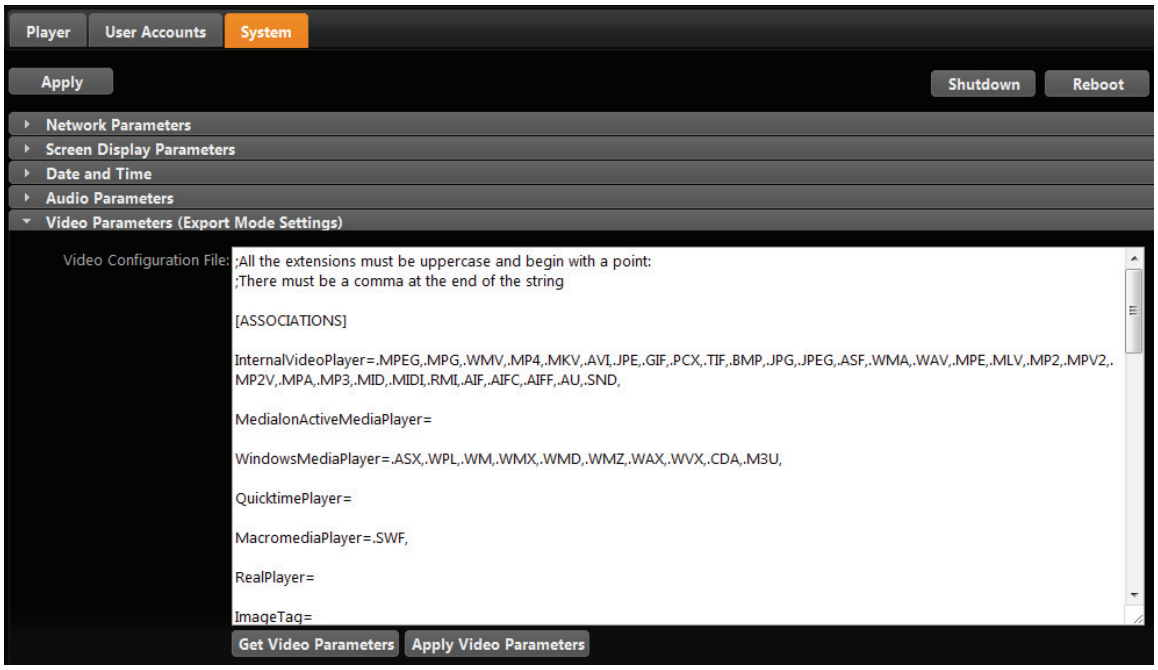
Audio Parameters

Switch audio output from Analog to SPDIF (Digital) output.

See more about "Audio Format and Output" on page 99.

Video Parameters

All operations described below must be done by an appropriate technician



Get Video parameters. See more about “About Media” on page 98.

Logs

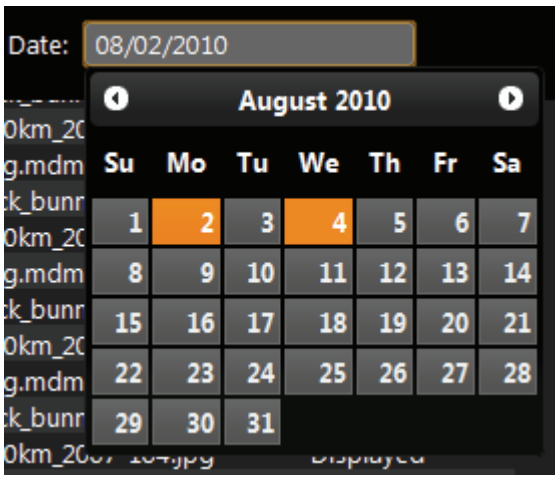
Logs Menu

MIP HD automatically generates log files of technical events and playback report files listing all media playback confirmation. The **Monitoring** menu allows access to *Log files* and *Playback files*

Click on the**Log file** button to access to current Log file

Click on the **Playback file** button to access the current playback file

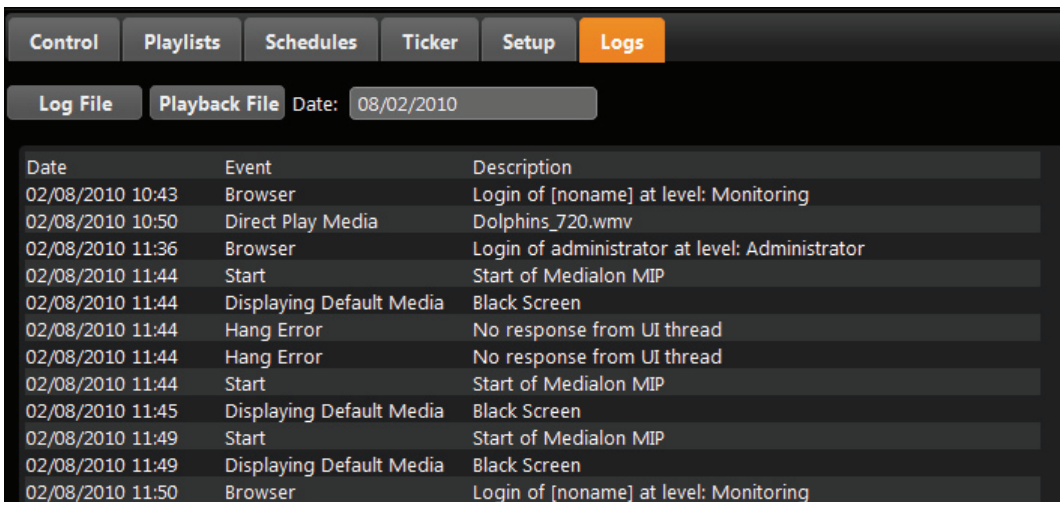
A new file is created each day. You can access to a specific *Log file* or *Playback file* by entering a valid date into the *Date of file to monitor* fields



Note: *Log Files and Playback files can be sent by email at a specific address.* *(See "Information sending", page 65.)*

Log file

The log file contains all the events concerning the player activity. You can see 3 columns



- The *Date* column indicates the date and the time of the event
- The *Event* column indicates the name of the event
- The *Description* column dives a description or more information about the event

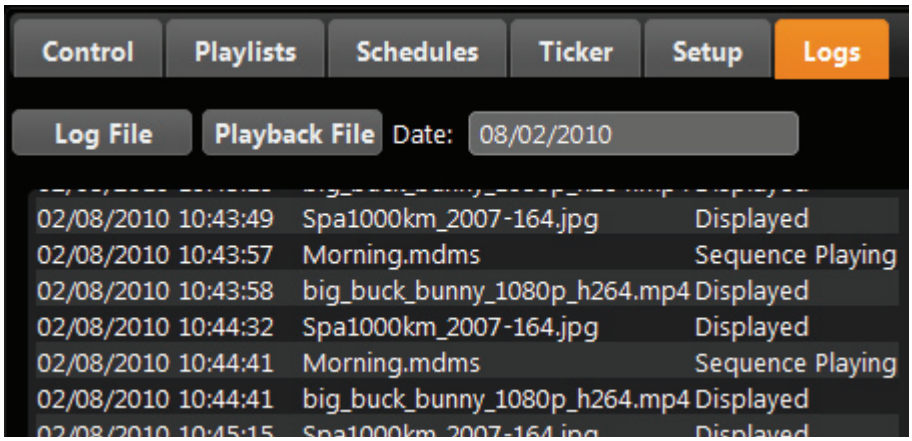
***Note**: A Log file is created each day.*

For the list of events which can be written into the *Log file*.,See "Log Files Messages", page 75.

Playback file

Each time a media is displayed, a record is saved into the current *Playback* file.

Playback file holds the list of all the displayed media. This allows you to know exactly when a sequence started, which media was displayed during the day and so on. This is useful for statistics



***Note**: A playback file is created each day.*

Log Files Messages

These messages are written in the log file.

The date and time of the message is written in the first column.
This log file can be accessed locally or remotely with Internet Explorer.
A new log file is created everyday.

The messages are in alphabetical order.

Command/Change Login
The login of the player was changed

Command/Driver Command
A driver command was sent by the player

Command/Ticker
A ticker command was sent and displayed by the player

Command driver error/xxx
An error occured during the execution of a driver command

Deletion forbidden/xxx

The file xxx cannot be deleted

Disk full/The amount of free space is reached. Cleaning of unused files.
The disk is full, files in the trash are deleted

Display error/xxx
Media error where xxx is the name of the media

Display navigate error
An error occurred during the displaying of a media

Error/Empty sequence name
The sequence has no name

Error/Frame login invalid
The security code of the frame is invalid. The frame is rejected.

Error/Invalid frame
The received frame has an invalid format. The frame is rejected.

Error/Sequence missing : xxx
The sequence xxx must be started and doesn't exist anymore

Error/login xxx
The user xxx cannot log to the player

Explorer/"administrator"
Administrator logged successfully

Explorer/"Editor"
Editor logged successfully

Explorer/"Monitoring"
Monitoring logged successfully

Explorer/"Ticker"
Ticker logged successfully

Explorer/Start upload
The command upload media was sent successfully to the player

Explorer/Add File Error
The command "Add file" sent to the player failed

Explorer/play xxx
The command play media xxx was sent successfully to the player

Explorer/play error
An error occurred while the command play Media xxx was sent to the player

Explorer/remove media error
An error occurred while the command remove Media xxx was sent to the player

Explorer/Remove Schedule Error
An error occurred while the command remove Schedule xxx was sent to the player

Explorer/Sequencer Management Error
A new sequence cannot be created nor modified

Explorer/upload xxx
The file xxx has been uploaded from the explorer

File Error/file does not exist xxx
The file xxx doesn't exist

From explorer/Set new account
New account set successfully

From explorer/Set parameters
Parameters were set successfully

HTTP file transfer Error
An error occurred while transferring files via HTTP

Impossible to copy file xxx
An error occurred while copying media xxx

Impossible to delete xxx
An error occurred while deleting media xxx

Load media error xxx
An error occurred while loading media xxx

Next planning event: xxx
xxx is Date and time of the next planning event

Remote control error/Connection to xxx failed
The connection to player xxx failed

Remove file xxx
The file xxx was removed successfully

Schedule saving error
An error occurred while saving the scheduler

Send mail error/Impossible to send the periodic email
An error occurred while sending the periodic email

Serious error/"Disk or file error"
An error occurred while saving a system file

Set volume error xxx
An error occurred while the command "Set volume xxx" was sent to the player

Set volume success xxx
The command Set volume xxx was sent successfully to the player

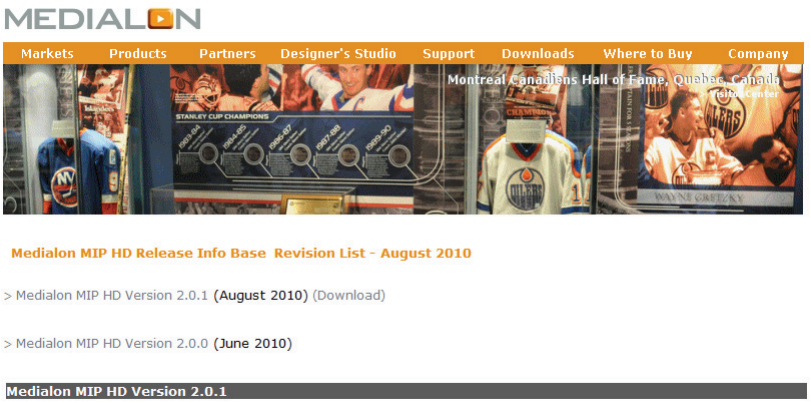
Start of MedialonMIP
Medialon Player was started successfully

Ticker error/No response from ticker thread
An error occurred while sending Ticker

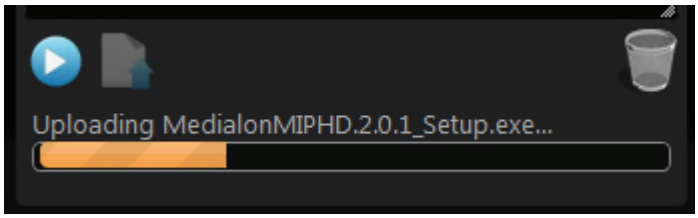
Updating MIP Firmware

This section helps you upgrade your Medialon MIP HD firmware.

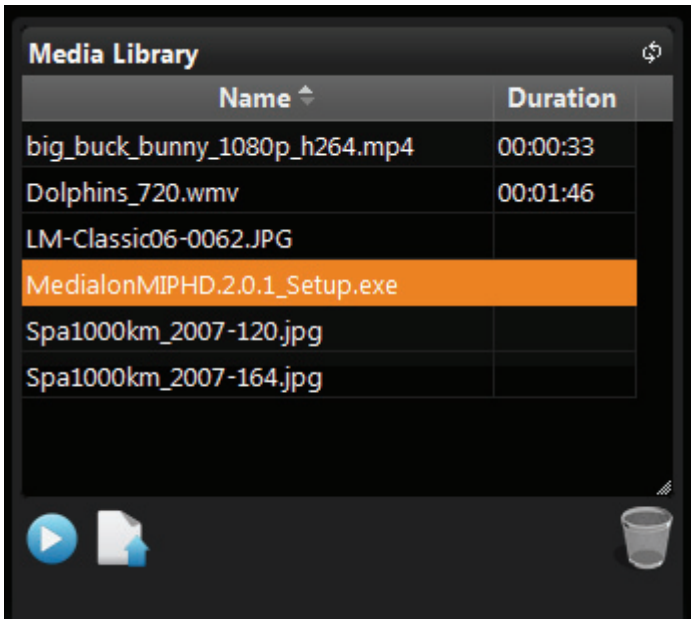
1. Download from **Medialon** web site the lastest **Medialon MIP HD** firmware.
   http://www.medialon.com/download/show_mip/ReleaseInfoBase.htm



2. Transfer this firmware into your Medialon MIP HD.

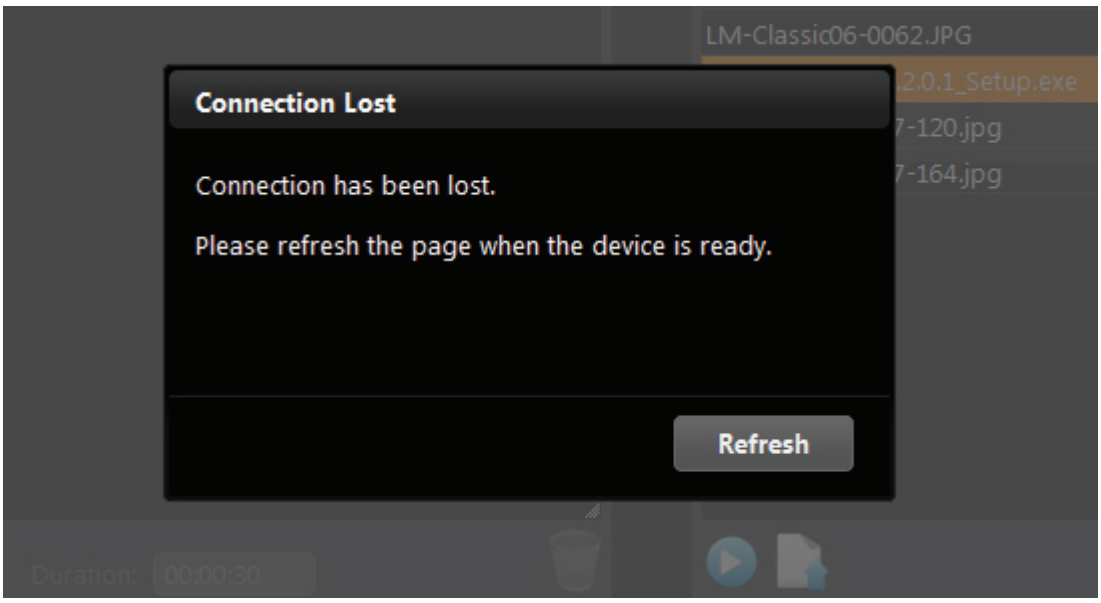


3. Select the firmware in the Media Library.



4. Press ***Play*** to start the update.
5. Medialon MIP HD will close, execute the update and then reboot.

If you execute the update remotely, MIP HD will disconnect.



For more information about Medialon MIP HD updates, contact your dealer

Troubleshooting

This section helps you resolve problems you may encounter while using the MIP

Common Problems & Solutions

Problem	Check These Items
Does not turn on	Check that the power cable is plugged in. Check that the power adapter is plugged in
No picture on screen	Check that the VGA cable is plugged in Check that the screen is powered on Check that the screen RGB input is selected
Hardware serial commands don’t control your screen	Check that the right Driver Command is selected Check Driver Commands settings Check serial connection, refer to Screen Manual. Check Screen Remote settings
«Send mail error/Impossible to send the periodic email» message in log file	Check Mail account settings. Check Internet connection
«File Error/file does not exist» message in log file	Check in the Media List. Upload the missing file.
«Command driver error» message in log file	Contact your dealer
«Dungle error» message in log file	Contact your dealer, this unit needs to return to factory.
Serious error/ "Disk or file error" message in log files	Contact your dealer, this unit needs to return to factory.

For more information contact your dealer

REFERENCES

Technical Specifications

Dimensions

- Product: 219 (W) x 73 (H) x 260 (D) [67 (H) mm without feet]; 8 5/8" (W) x 2 7/8" (H) x 10 1/4" (D) [2 5/8" (H) without feet]
- Packaging: NC
- Rack size: 1 1/2U (H) x 1/2 19"(W)

Weight

- Rack: 5.4 lbs/2.8 Kg
- Packaging: NA

Power

- AC/DC adapter Auto-Ranging 100-240VAC 1.5A / 50-60Hz to 19VDC 4,74A

Enclosure

- Metal with satin black finish

Certifications

- FCC, CE, EN60950-1 FCC Class A - EN55022

Front Panel

- 1x Power LED
- 1x Operating LED

Rear Panel

- 1x 10/100/1000 Base-T Ethernet Port
- 1x RS-232 DB9 Male Serial Port
- 2x USB 2.0 Ports
- 1x HDMI
- 1x DVI
- 1x VGA
- 1x Optical Audio
- 1x digital RCA audio SPDIF
- 2x Analog Audio Out
- 1x Analog Audio In

System

- XPE
- 1GB DDR2, SDRAM, 667 MHz
- 1x 16 GB SSD SATA Hard Drive
- Atom N330, 1,6Ghz Processor

Media Supported

- Video: MPG4 (H.264/AVC @MP Up to 15Mb/s, H.264/AVC @HP Up to 15Mb/s, H.264/AVC HD Up to 20Mb/s); MPG2 SD, MPEG2 HD @HP up to 20 Mb/s ; WMV up to 720p/10 Mb/s
- Audio: Wave PCM/MP3/AAC/MIDI

- Still Images: Bitmap/Jpeg/Gif/Tiff
- Composite: HTML/Flash

Environmental

- Operating Temperature: 0°C/32°F to 50°C/122°F
- Operating Humidity: 10 to 80% at 25°C non-condensing
- Acoustic Noise: NC
- Heat Dissipation (Typical): NC BTU/hr

Included Accessories

- 1x External Power Adapter, Model: ADP-90CD DB

Recommended Accessories

- NA

Software Specifications

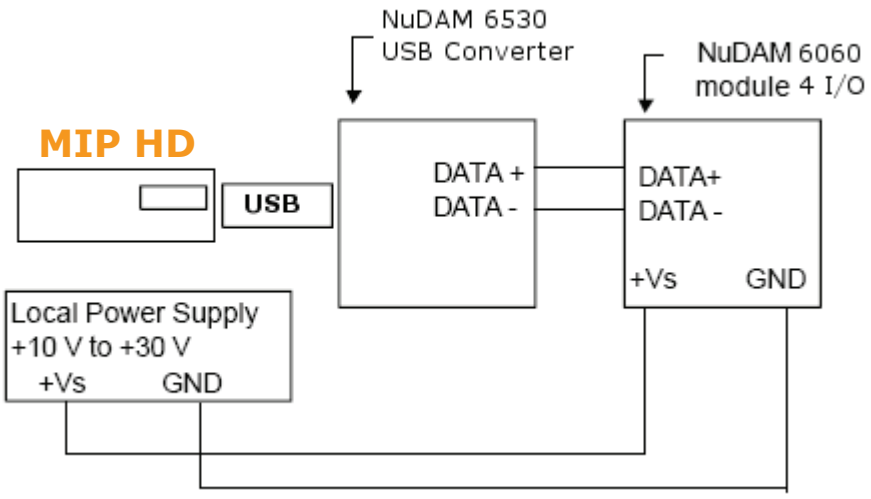
- Web Based interface
- Multimedia playback
- Media scheduling & Calendar feature
- Video Sync
- Driver for LCD/Plasma/Video projector control and Digital input
- MXM for Medialon Manager

Extensions Supported

- NA

Relays and Triggers Specifications

Medialon MIP HD Playlist can be started by external triggers and can use relays to control lamps. This optional feature is based on Adlink NuDAM modules



The ND-6530 takes advantages of the USB technology, and for the convenience to the users of numerous PC, IPC, notebooks, laptops and handheld PC, it provides an easy way to link with industry standard buses interface of RS-232/ 422/485.

NuDAM-6060 provides four relay output channels, two are form A and two are form C. It can control high power devices without external circuits. The isolation guarantees the industrial safety.

Setup

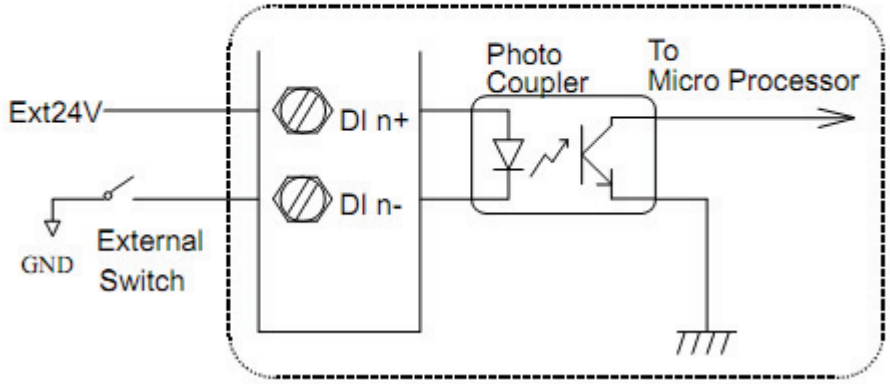
In normal condition, it is not necessary to setup the ND-6530. The default configuration of this communication module is in RS-485 mode. There's normally no need to configure the baud rate as the MIP HD uses the default baud rate value of 19200Kbps

Connections

Wiring

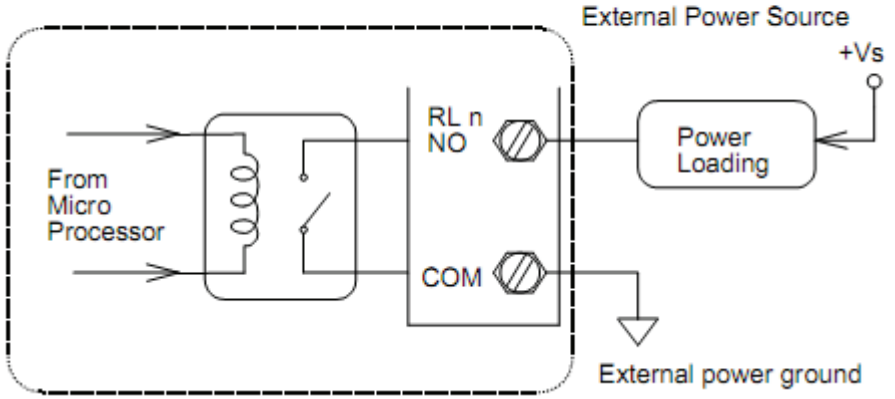
Inputs

Discrete Input: Contact Mode

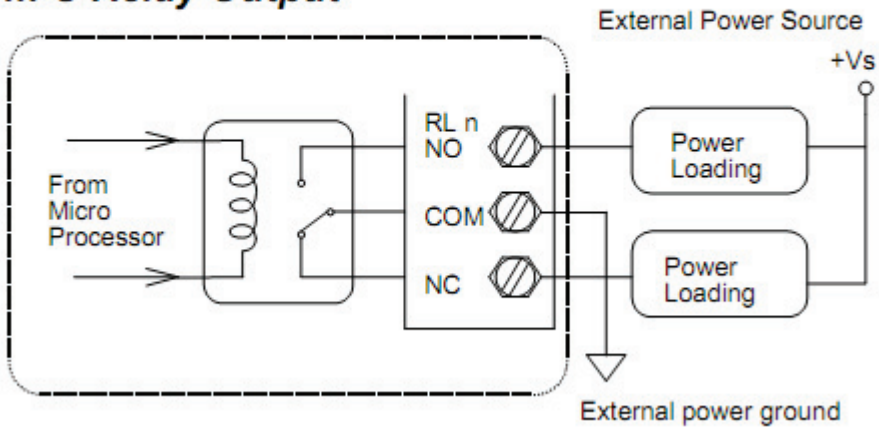


Relays

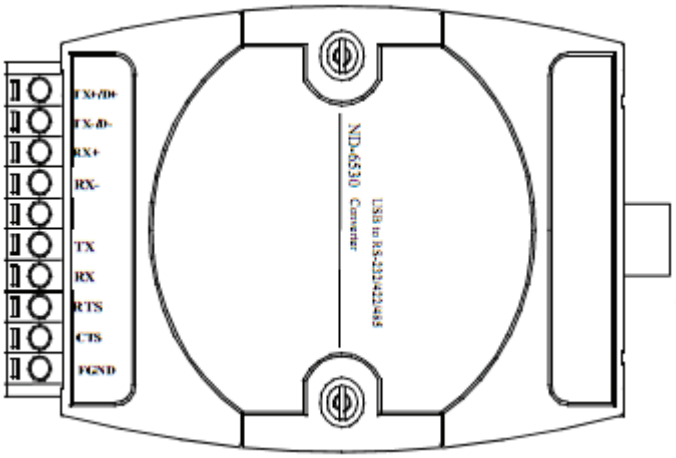
Form A Relay Output



Form C Relay Output

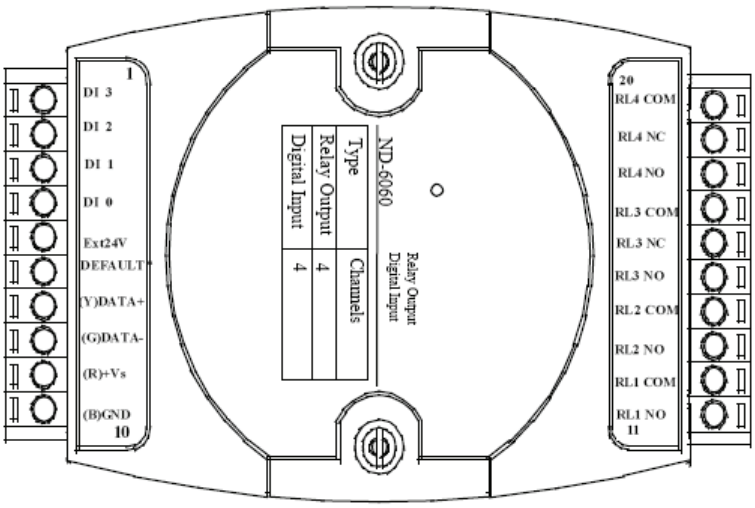


Pin Definitions of NuDAM-6530



Pin #	Signal Name	Description
1	TX+/D+	RS-422 or RS-485 transmission line, positive
2	TX-/D-	RS-422 or RS-485 transmission line, negative
3	RX+	RS-422 receive line, positive
4	RX-	RS-422 receive line, negative
5	NC	No connection
6	TX	RS-232 transmission line
7	RX	RS-232 receive line
8	RTS	Request to send
9	CTS	Clear to send
10	GND	Ground

Pin Definitions of NuDAM-6060



Pin #	Signal Name	Description
1	DI3	Digital Input Channel 3
2	DI2	Digital Input Channel 2
3	DI1	Digital Input Channel 1
4	DI0	Digital Input Channel 0
5	Ext24	External Common +24V
6	Default*	Initial state setting
7	(Y) DATA+	RS-485 series signal, positive
8	(G) DATA-	RS-485 series signal, negative
9	(R) +VS	Power supply, +10V~+30V
10	(B) GND	Ground
11	RL1 NO	Relay 1, normal open
12	RL1 COM	Relay 1, common ground
13	RL2 NO	Relay 2, normal open
14	RL2 COM	Relay 2, common ground
15	RL3 NO	Relay 3, normal open
16	RL3 NC	Relay 3, normal close
17	RL3 COM	Relay 3, common ground
18	RL4 NO	Relay 4, normal open
19	RL4 NC	Relay 4, normal close
20	RL4 COM	Relay 4, common ground

Specifications

Specifications of ND-6530

USB controller

- USB Spec. 1.1 compliant

I/O Interface

- RS-232/422/485 DIP switch selectable
- RS-232 support RXD, TXD, RTS, CTS, FGND signals
- RS-422 support TX+, TX-, RX+, RX- 4 wires full-duplex signals
- RS-485 support DATA+, DATA- signals with auto direction control
- Selectable transfer speed with 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
- 2500Vrms isolation
- Surge protection on all signal lines

Connector

- USB type B
- 10 pin screw terminal block

LED Indicator:

- ON: Receiving USB power
- Flashing: Data transfer
- OFF: No power applied

Environment

- Storage Temperature Range: -25 to 80 °C
- Operating Temperature Range: -10 to 70 °C

Power

- Power Requirement: USB bus power
- Power Consumption: 0.795W

Specifications of NuDAM-6060

Interface

- Interface: RS-485, 2 wires
- Speed (bps): 19.2K

Input

- Channel numbers: 4
- Common External Voltage: +24 V

Output

- Channel numbers: 4 relay output
- Output type: 2 form C channels, 2 form A channels
- Contact rating: 0.5A / AC 125V, 1A / DC 30V
- Relay ON/OFF time interval: Max. 3 ms

- Breakdown voltage: 750 Vrms (between open contact), 1000 Vrms (between contact and coil)
- Expected life: 105 times(0.5A/AC125V resistive load at 20 cpm) or 108 times (no load at 180 cpm)
- Insulation resistance: Min. 1000 MΩ

Power

- Power supply: +10V to +30V
- Current consumption: 0.84W

TCP/IP Protocol

The **Medialon MIP HD** can receive commands via a TCP/IP Socket. This chapter describes the protocol used when a client application sends commands or receives information via this TCP/IP Socket.

The default MIP HD listen port is 4004.

Note that the MIP HD can also communicate via the HTTP Protocol on port 80 but this protocol is not covered by this manual.

General Message Format

The general command/info format is XML.

Command frame

Commands are set with a command frame:

Following is an example of a command frame.

```
<xml>
    <medialon value="HPFNIFL7PTC50GDBZ3RTYY451I">
        <command_frame>
            <command name="play_media" src="medianame" />
        </command_frame>
    </medialon>
</xml>
```

The "value" attribute of the "medialon" element is used to sign the command frame.

The "name" attribute of the "command" element specifies the command to execute. Other "command" element attributes may have to be specified depending on the command. These additional attributes are detailed below.

Response frame

When a command requires a response, the MIP HD sends back an "info" response frame. The "value" attribute of the "info" element varies depending on the "type" attribute. The "value" attribute is documented for each command which requires a response.

```
<xml>
    <info type="current_media" value="medianame" />
</xml>
```

Commands

The following section details the "command" element attributes.

Multimedia Player Commands

display_default

Displays the default media.

Attribute	Value
name	display_default

resume_planning

Resumes the current schedule or the current playlist if there's no active schedule.

Attribute	Value
name	resume_planning

trigger_command

sends a trigger command (digital I/O)

Attribute	Value
name	trigger_command
number	1 to 4
status	0="Off" 1="On" 2="Toggle" 3="Pulse"
duration	Pulse duration expressed in 1/100 second

play_media

Plays a media file

Attribute	Value
name	play_media
src	media file name

Example: <command name="play_media" src="big_buck_bunny_h264.mp4" />

play_sequence

Start a Playlist

Attribute	Value
name	play_sequence
src	playlist file name
repeat	loop count, 0 = infinite

Example: <command name="play_sequence" src="Morning" repeat="0"/>

play_schedule

Start a schedule

Attribute	Value
name	play_schedule
src	schedule file name

Example: <command name="play_schedule" src="Monday"/>

Video Sync Player Commands

videoplayer_loadmedia

Load a new video media

Attribute	Value
name	videoplayer_loadmedia
src	video file name
sync_mode	0='No Sync' 1='Sync Master 2='Sync Slave'
sync_group	0 to 9

Example: Load video as Master of sync group 5

<command name="videoplayer_loadmedia" src="big_buck_bunny_h264.mp4" sync_mode="1" sync_group="5" />

videoplayer_transportcommand

Send a transport command

Attribute	Value
name	videoplayer_transportcommand
command	'play' 'pause' 'stop' 'locate' * requires timecode
timecode	Timecode is expressed in 1/1000 second (when Timecode is needed)

Example: Send a Play video

<command name="videoplayer_transportcommand" command="play"/>

Send a Locate video at 10s

<command name="videoplayer_transportcommand" command="locate"

timecode="10000"/>

MIP HD Commands

videoplayer_setmode

Change the player mode

Attribute	Value
name	videoplayer_setmode
value	0='Multimedia Player' 1='Video Player'

reboot_windows

Reboots or shuts down MIP HD

Attribute	Value
name	reboot_windows
mode	0='reboot' 1='shutdown'

serial_frame

Sends a serial frame on a serial port

Attribute	Value
name	serial_frame
frame	frame to send
settings	BBBB,P,D,S BBBB = 'Baudrate' P = 'Parity' (None, Odd, Even) D = 'Data Bit' S = 'Stop Bit'
port	1 = 'MIP HD COM1'

Example: <command name="serial_frame" frame="frametosend" settings="9600,N,8,1" port="1"/>

set_volume

Sets the general audio volume of the MIP HD

Attribute	Value
name	set_volume
value	0 to 1000

ticker_command

Show/Hide the ticker

Attribute	Value
name	ticker_command
text	text of the ticker (empty string hides the ticker)
backgroundcolor	color is expressed in HTML format for example: ‘#FF0000’ or ‘red’
fontsize	Size of the font
color	color is expressed in HTML format for example: ‘#FF0000’ or ‘red’
fontname	Name of the font
period	Period in seconds of the ticker 0 = ’stationary’ 1 = ’fast’ 100 = ’slow’
tickerheight	Height of ticker in pixel
weight	‘normal’ ‘bold’
decoration	‘None’ ’Underline’ ‘Overline’ ‘Line-Through’
style	‘Normal’ ’Italic’
scrollmode	0=’Right to left’ 1=’left to right’

MIP HD Request Commands

get_info

Retrieves information from the MIP HD.

Attribute	Value
name	get_info
type	all_status current_media current_sequence current_schedule disk_space trigger_count mac_address

The MIP HD responds with an "info" answer frame whose type attribute is the

same as the type attribute of the "get_info" command.

info type	Value
current_media	current_media
current_sequence	sequencename
current_schedule	schedulename
disk_space	diskspacevalue
trigger_count	triggercountvalue
mac_address	macaddressvalue

get_files_list

Gets list of files (media, sequences or schedules)

Attribute	Value
name	get_files_list
type	0='all' 1='sequence' 2='media' 3='schedule'
permanence	0='all' 1='not permanent' 2='permanent'

When it receives this command, the MIP HD replies with an "info" response frame.

Each file name is separated by the '@' character. In case of type="all_list", sequence name is preceded by "Sequences\", schedule name is preceded by "Schedule\" and media name are given without any header.

info type	Value
media_list	medianame1@medianame2@medianame3
sequence_list	seqname1@seqname2@ seqname3
schedule_list	schedname1@schedname2
all_list	Sequences\seqname1@Sequences\seqname2@ Sequences\seqname3@Schedules\schedname1 @Schedules\schedname2@medianame1@media name2@medianame3

videoplayer_getstatus

Retrieve the current player video mode status

Attribute	Value
name	videoplayer_getstatus

The MIP HD responds with an "info" answer frame whose type attribute is the same as the type attribute of the "videoplayer_status" command. The answer contains the following information:

```
<xml>
    <info type=\"videoplayer_status\">
        <videoplayermode>videomode</videoplayermode>
        <status>statusname</status>
        <media>medianame</media>
        <timecode>timecodevalue</timecode>
        <duration>durationvalue</duration>
        <syncmode>syncmodename</syncmode>
        <syncgroup>syncgroupvalue</syncgroup>
    </info>
</xml>
```

Media Specifications

About Media

Medialon MIP HD uses either an internal video player or Internet Explorer to render media on the screen. The type of renderer is selected depending on the type of media.

Internet Explorer uses different plug-in (such as Flash Player or Windows Media Player), decoders, and filters to display these media.

These different plug-in layers and the relevant settings effect image aspect and ratio.

In general: pure video/audio media are played by the mean of the internal video player, while other types like HTML page are rendered via Internet Explorer.

The following tables show the relevant programs and settings for most of the common files types.

Supported Files List, Display Modes

Each time the MIP HD displays a media, it creates a page. The media is treated as an object in an HTML page. The treatment depends on the type of media. The associations between the plug-ins installed and the media are defined in the following table.

The ratio and settings table shows the effects of the size and ratio settings for the different file types.

Extension	File type	Object Plug in	Size & Ratio
.bmp, .gif	Image	Medialon	Auto
.jpg, .jpeg	Image	Medialon	Auto
.png	Image		N/A
.mpg, .mpeg	video file	Medialon	Auto
.mp4	video file	Medialon	Ratio
.wmv	video file	Medialon	Auto
.avi	video file	Medialon	Auto
.mov (H264)	video file	Medialon	Ratio
.swf	Flash	Flash Player	Ratio
.htm, .html	Html page		N/A
.mp3, .aif	sound	Medialon	
.wav, ;wma	sound	Medialon	

- **Auto**: means: media is automatically adjusted to the player screen size and doesn't keep the original aspect ratio of the media.
- **Ratio**: means: ratio is fixed. Adjustment depends on the media vertical size.
- **N/A**: means: No effect, the media keeps its original size and ratio.

Media/renderer associations can be altered for specific uses via the Setup/ System/Video Parameters section, See "Video Parameters", page 73..

Audio Format and Output

Medialon MIP HD can use analog or digital(SPDIF) output for playing audio.

Using SPDIF output, Medialon MIP HD can play multi audio channels files. MIP HD is able to decode AC3 / DTS / MPEG1/2 Audio Layer I/II formats.

Medialon MIP HD supports:

- Wave
- MP3
- AAC
- AC3
- DTS
- PCM
- MIDI

Video Specifications

Medialon MIP HD is able to playback 1080p HD video.

MIP HD supports following video formats:

- H.264 1080p
  - •Common file extensions: .AVI, .MKV, .MP4, .MOV.
  - •Main Profile 15Mb/s
  - •High Profile up to 33 Mb/s
  - •AVCHD 20Mb/s
- MPEG2 (.MPG)
  - •Common file extensions: .MPG, .MPEG
  - •SD / HD 1080p up to 50Mb/s

- Windows Media Video
    - Common file extensions: .WMV
    - SD /HD 720p up to 10Mb/s

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NOTES

NOTES

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